CONSTRUCTION PLANS FOR
WHITE ROCK CREEK BASIN
OAKS NORTH DRIVE DRAINAGE IMPROVEMENTS
FROM 14920 OAKS N. DR.
TO 14953 OAKS N. DR.
TOWN OF ADDISON
PROJECT NO. 20-04
NOVEMBER 2019

RECORD DRAWINGS
THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE FACILITIES ACCORDING TO THESE PLANS AS APPROVED BY THE TOWN OF ADDISON. THE OWNER OR ENGINEER DID NOT VERIFY LINES OR GRADES AFTER CONSTRUCTION AND IS NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED BASED ON INFORMATION PROVIDED BY:
JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

MAYOR

JOE CHOW

CITY COUNCIL

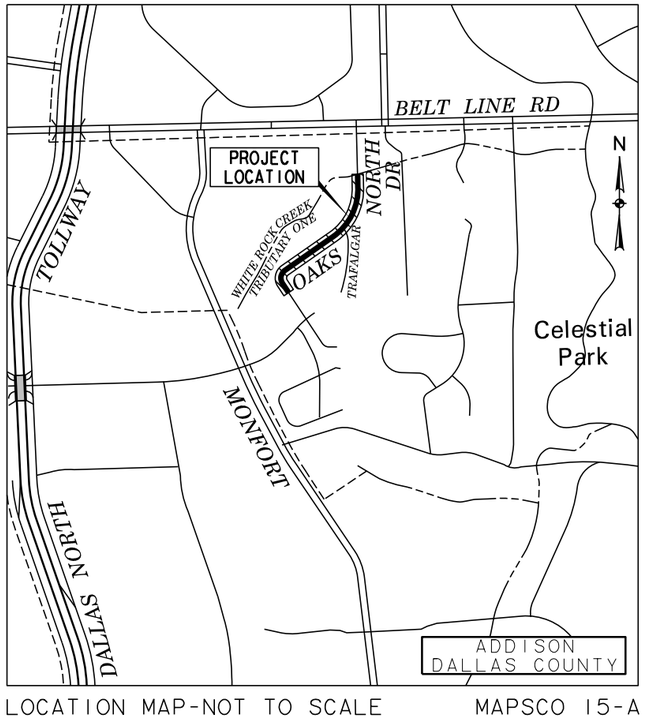
TOM BRAUN (MAYOR PRO TEMPORE)
LORI WARD (DEPUTY MAYOR PRO TEMPORE)
PAUL WALDEN
IVAN HUGHES
GUILLERMO QUINTANILLA
MARLIN WILLESEN

CITY MANAGER

WESLEY S. PIERSON

DIRECTOR OF PUBLIC WORKS AND ENGINEERING

LISA A. PYLES



LOCATION MAP-NOT TO SCALE MAPSCO 15-A
PROJECT LENGTH: 961 LF

PREPARED FOR
TOWN OF ADDISON, TEXAS
PUBLIC WORKS AND ENGINEERING DEPARTMENT
16801 WESTGROVE DRIVE, ADDISON, TEXAS 75001-5190

RECORD DRAWINGS

PLANS AND DETAILS APPROVED FOR THIS PROJECT

SHEET NO.	SHEET TITLE
1	COVER SHEET
2	SUMMARY OF QUANTITY SHEET
3	GENERAL NOTES
4	HORIZONTAL ALIGNMENT DATA
5	SURVEY CONTROL AND ROW MAP
6 THRU 7	REMOVAL PLANS
8	TRAFFIC CONTROL PLAN - NARRATIVE AND OVERALL PHASE MAP
9	DRAINAGE AREA MAP
10	INLET CALCULATIONS
11	HYDRAULIC CALCULATIONS
12 THRU 14	DRAINAGE PLAN & PROFILE
15	DRAINAGE LATERAL PROFILES
16	PAVING PLAN
17 THRU 18	EROSION CONTROL PLANS
19	SW3P
CD-01 THRU CD-06	CONSTRUCTION DETAILS
N/A	TXDOT DETAILS
	BC(1)-14 1/12
	BC(2)-14 2/12
	BC(4)-14 4/12
	BC(5)-14 5/12
	BC(8)-14 8/12
	BC(9)-14 9/12
	BC(10)-14 10/12
	BC(11)-14 11/12
	BC(12)-14 12/12
	TCP (2-2)-18
	PED-18 (4 SHEETS)

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED
PROFESSIONAL ENGINEER
Nov 07, 2019

R14285.01 November 2019

OAKS NORTH DRIVE, ADDISON, TX - PROJECT NO. 20-04

SUMMARY OF QUANTITY

Item #	Bid Qty.	Unit	Description
			General
1	1	LS	Mobilization
			Paving
2	880	SY	Remove & Dispose of Existing Pavement
3	160	SY	Remove & Dispose of Existing Sidewalk
4	880	SY	8-inch Reinforced Concrete Pavement (High Early Strength)
5	130	SY	4-inch Reinforced Concrete Sidewalk (Exposed Aggregate)
6	405	LF	6" Monolithic Curb
7	3	EA	Speed Hump (Match Exising Stamped Concrete)
8	140	SY	Sod W/ Topsoil (4" Depth)
9	2	EA	Project Sign
10	100	SY	Temporary Pavement
11	2	EA	Barrier Free Ramp
12	26	LF	Furnish and Install REF PAV MRK TY I (W) 12" (SLD) (125 MIL)
13	2	EA	Furnish & Install Small Roadside Sign Assembly
14	1	EA	Construct Median Nose
15	20	CY	Stabilized Construction Exit (Stone)
16	3	MO	Traffic Control
			Storm Water Drainage
17	1	LS	Storm Water Pollution Prevention Plan (SW3P) - Including Maintenance, Inlet Protection and Erosion Control
18	50	LF	18-inch Class III Reinforced Concrete Pipe
19	550	LF	21-inch Class III Reinforced Concrete Pipe
20	140	LF	21-inch Class III Reinforced Concrete Radius Pipe (Joint Length = 4 feet)
21	270	LF	24-inch Class III Reinforced Concrete Pipe
22	1,010	LF	Trench Safety
23	4	EA	10-foot Standard Concrete Curb Inlet (Exposed Aggregate)
24	1	EA	20-foot Standard Concrete Curb Inlet (Exposed Aggregate)
25	2	EA	4'x4' Storm Water Manhole
26	1	EA	Pipe to Existing Structure Connection
27	1,010	LF	Television Inspection
28	1,010	LF	Construction Surveying & Staking
29	2	EA	Water Main Lowering
30	6	EA	4-inch Sanitary Sewer Service
31	2	EA	Adjust Water Meter
32	7	EA	Furnish & Install 1-inch Standard Water Service

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REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

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SUMMARY OF QUANTITY SHEET
(SHEET 1 OF 1)

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	SUMMARY OF QUANTITY	2

DATE: 11/18/2020
TIME: 12:07:45 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_Summary of Quantity.dgn

GENERAL NOTES

1. OWNER

   TOWN OF ADDISON
   PUBLIC WORKS AND ENGINEERING DEPARTMENT
   16801 WESTGROVE DRIVE
   ADDISON, TX 75001-5190
   CONTACT: WILSON K. KAKEMBO
   PH: (972) 450-2870
   EMAIL: WKAKEMBO@ADDISONTX.GOV

2. ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE REQUIREMENTS OF THE TOWN OF ADDISON AND SHALL BE IN ACCORDANCE WITH THE TOWN OF ADDISON STANDARD DETAILS AND SPECIFICATIONS FOR CONSTRUCTION. ALL WORK NOT COVERED IN THE CONTRACT DOCUMENTS AND THE TOWN OF ADDISON STANDARD DETAILS AND SPECIFICATIONS FOR CONSTRUCTION SHALL BE GOVERNED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, FIFTH EDITION, DATED 2017, INCLUDING ALL AMENDMENTS OR TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) STANDARD SPECIFICATIONS, DATED 2014, AS INDICATED IN THE PROJECT MANUAL. A COPY OF THE CONTRACT DOCUMENTS, PLANS AND SPECIFICATIONS SHALL BE AVAILABLE ON-SITE AT ALL TIMES BY THE CONTRACTOR.
3. PRIOR TO SUBMISSION OF THE BID PROPOSAL, THE CONTRACTOR SHALL HAVE MADE A CAREFUL EXAMINATION OF THE WORK SITE, ALL THE CONTRACT DOCUMENTS, AND ALL MATTERS THAT MAY AFFECT THE COST AND TIME FOR THE COMPLETION OF THE WORK INVOLVED. FAILURE ON THE PART OF THE CONTRACTOR TO BE FAMILIAR WITH ALL STANDARDS AND SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY OF PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
4. THE LOCATION AND DEPTH OF ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THERE MAY BE OTHER UNKNOWN EXISTING UTILITIES NOT SHOWN ON THE PLANS. ALL EXISTING UTILITIES SHALL BE FIELD VERIFIED AND PROTECTED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE THE PROTECTION OF EXISTING UTILITIES AND APPURTENANCES, INCLUDING EXISTING UTILITY POLES IN THE VICINITY OF CONSTRUCTION OPERATIONS WHETHER UTILITIES ARE SHOWN IN THE CONTRACT DOCUMENTS OR NOT. ANY DAMAGE INCURRED TO EXISTING UTILITIES WHERE SHOWN OR NOT, APPURTENANCES, POWER POLES, ETC. BY CONSTRUCTION RELATED ACTIVITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRS AT NO COST TO THE TOWN OF ADDISON. THE CONTRACTOR SHALL CONTACT THE FOLLOWING FRANCHISE UTILITY COMPANIES 72 HOURS PRIOR TO DOING ANY WORK IN THE AREA:
   A) ENGINEERING DEPARTMENT - WILSON KAKEMBO - WKAKEMBO@ADDISONTX.GOV
   B) PARKS DEPARTMENT- JANNA TIDWELL - JTIDWELL@ADDISONTX.GOV
   C) ONCOR ELECTRIC - LARRY BALDWIN - LARRY.BALDWN@ONCOR.COM
   D) ATMOS ENERGY - BOBBY ROGERS - BOBBY.ROGERS@ATMOSENERGY.COM
   E) AT&T - CHAD COOPER - CC8956@ATT.COM
   F) TIME WARNER CABLE - DAVID CHENEY - DAVID.CHENEY@TWCABLE.COM
   G) FIBERLIGHT - MIKE BITSCHE - MIKE.BITSCHE@FIBERLIGHT.COM
   H) CALL 811
5. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THE FOLLOWING AT NO ADDITIONAL COMPENSATION:
   A) PREVENT PROPERTY DAMAGE TO PROPERTY OWNER'S POLES, FENCES, SHRUBS, MAILBOXES, CURBS, PAVEMENT, SPRINKLER SYSTEMS, SPRINKLER HEADS, CONCRETE STRUCTURES, ETC.
   B) PROVIDE AND MAINTAIN ACCESS TO ALL ROADS, DRIVES, AND PRIVATE PROPERTIES DURING CONSTRUCTION.
   C) PROTECT ALL UNDERGROUND AND OVERHEAD UTILITIES AND REPAIR ANY DAMAGES.
   D) NOTIFY ALL UTILITY COMPANIES AND VERIFY LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
   E) COORDINATE AND COOPERATE WITH THE UTILITY COMPANIES WHERE UTILITIES ARE REQUIRED OR SPECIFIED TO BE RELOCATED.
   F) WORK IN CLOSE PROXIMITY TO AND PROTECT EXISTING UTILITY MAINS, TRAFFIC LIGHTS AND POLES.
   G) PROVIDE AND MAINTAIN STORM WATER DRAINAGE AT ALL TIMES DURING CONSTRUCTION.
6. ALL COMMUNICATION BETWEEN THE TOWN AND THE CONTRACTOR SHALL BE THROUGH THE TOWN INSPECTOR ONLY.
7. THE CONTRACTOR SHALL INSTALL THE CAPITAL IMPROVEMENT PROJECT SIGNS AS SPECIFIED IN SECTION PS OF THE SPECIAL CONDITIONS OF AGREEMENT AS PER THE ENGINEER'S SPECIFICATIONS PRIOR TO ANY CONSTRUCTION.
8. THE SUCCESSFUL CONTRACTOR SHALL PREPARE AND SUBMIT WRITTEN SUBMITTALS, INCLUDING BUT NOT LIMITED TO SEQUENCE OF CONSTRUCTION PLAN AND WORK SCHEDULE, TRAFFIC CONTROL PLAN, TRENCH SAFETY PLAN, BYPASS PUMPING PLAN, AND DISPOSAL PLAN TO THE TOWN OF ADDISON PRIOR TO COMMENCING WORK AND PROVIDE MONTHLY UPDATES UNTIL THE PROJECT IS COMPLETED. SEQUENCE OF CONSTRUCTION PLAN SHALL DEMONSTRATE THAT ACCESS FOR PROPERTY OWNERS/TENANTS AND FOR EMERGENCY SERVICES IS PROVIDED AT ALL TIMES. TRAFFIC CONTROL PLAN SHALL INDICATE ALL LANE CLOSURES AND DETOURS DURING ALL PHASES OF CONSTRUCTION.
9. CONSTRUCTION MAY ONLY OCCUR FROM 7 A.M. TO 7 P.M. MONDAY THROUGH FRIDAY AND FROM 8 A.M. TO 7 P.M. SATURDAY. NO WORK SHALL OCCUR ON SUNDAYS UNLESS APPROVED BY THE TOWN OF ADDISON.
10. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING, OBTAINING, AND PAYING FOR ANY WATER, ELECTRICAL, OR OTHER SERVICES NEEDED FOR ANY OPERATIONS REQUIRED FOR THIS PROJECT.
11. VEHICULAR TRAFFIC FLOW, SAFETY AND ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION. BARRICADING AND TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE LATEST EDITION OF TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVISES (TMUTCD). TRAFFIC FLOW AND ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION, THE CONTRACTOR SHALL ASSUME FULL CONSTRUCTION AREA FOR THE DURATION OF CONSTRUCTION ACTIVITIES.
12. THE CONTRACTOR SHALL SWEEP THE AFFECTED AREA AND ADJACENT STREET WITHIN 200 FEET OF CONSTRUCTION ENTRANCES ONCE A WEEK AND PRIOR TO FORECASTED MAJOR RAIN EVENTS AT NO ADDITIONAL COST TO THE TOWN.
13. ANY DEBRIS, DIRT, OR MUD ON THE ROADWAY MUST BE CLEARED IMMEDIATELY.
14. THE CONTRACTOR SHALL REMOVE FROM THE PROJECT ALL SURPLUS MATERIAL. THIS WORK SHALL BE INCIDENTAL AND NOT A SEPARATE PAY ITEM. SURPLUS MATERIALS FROM EXCAVATION INCLUDING DIRT, TRASH, ROCK MEASURING GREATER THAN 2" IN THE LARGEST DIMENSION, ETC. SHALL BE PROPERLY DISPOSED OF AT A SITE ACCEPTABLE TO THE TOWN OF ADDISON IF WITHIN THE TOWN LIMITS. IF THE LOCATION IS NOT WITHIN THE TOWN LIMITS, THE CONTRACTOR SHALL PROVIDE A LETTER STATING SO. NO EXCESS EXCAVATED MATERIAL SHALL BE DEPOSITED IN LOW AREAS OR ALONG NATURAL DRAINAGE WAYS WITHOUT WRITTEN PERMISSION FROM THE AFFECTED PROPERTY OWNER AND THE TOWN OF ADDISON. IF THE CONTRACTOR PLACES EXCESS MATERIAL IN THESE AREAS WITHOUT WRITTEN PERMISSION, HE WILL BE RESPONSIBLE FOR ALL DAMAGES RESULTING FROM SUCH FILL AND HE SHALL REMOVE THE MATERIAL AT HIS OWN COST.
15. ALL PHASES OF CONSTRUCTION MUST BE COORDINATED WITH THE TOWN. FIELD ADJUSTMENTS MAY BE NECESSARY AND WILL BE CARRIED OUT AS DIRECTED BY THE ENGINEER, AT NO EXTRA PAY.
16. TEXAS STATE LAW, ARTICLE 1436C, MAKES UNLAWFUL THE OPERATION OF EQUIPMENT OR MACHINES WITHIN 10 FEET OF ANY OVERHEAD ELECTRICAL LINE, UNLESS CONTACT WITH HIGH VOLTAGE LINES HAS BEEN EFFECTIVELY GUARDED AGAINST, PURSUANT TO THE PROVISION OF THE ARTICLE. WHEN CONSTRUCTION OPERATIONS REQUIRE WORKING NEAR AN OVERHEAD ELECTRICAL LINE, THE CONTRACTOR SHALL CONTACT THE OWNER/OPERATOR OF THE OVERHEAD ELECTRICAL LINE TO MAKE ADEQUATE ARRANGEMENTS AND TO TAKE NECESSARY SAFETY PRECAUTIONS TO ENSURE THAT ALL LAWS, ELECTRICAL LINE OWNER/OPERATOR REQUIREMENTS, AND STANDARD INDUSTRY PRECAUTIONS ARE MET.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, LICENSES, ETC. REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
18. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN TOILET FACILITIES AND OTHER NECESSARY BUILDING SHELTERS. THE TOWN WILL NOT PROVIDE ANY FACILITIES TO THE CONTRACTOR DURING CONSTRUCTION.
19. OWNER'S AUTHORIZED REPRESENTATIVE (OAR) AND THE ENGINEER SHALL BE NOTIFIED 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
20. WORK CANNOT COMMENCE UNTIL:
   A) THE TOWN HAS ISSUED A NOTICE TO PROCEED.
   B) ALL SAFETY EQUIPMENT FOR PERSONNEL AND CONSTRUCTION EQUIPMENT IS IN PLACE AND OPERABLE.
   C) ALL NECESSARY EROSION CONTROL MEASURES ARE IN PLACE TO PROTECT EXISTING DRAINAGE STRUCTURES.
21. MAINTAIN EXISTING PROJECT DRAINAGE UTILITIES UNTIL NEW DRAINAGE FACILITIES ARE FUNCTIONAL; INCLUDING, WHERE NECESSARY, INTERIM REPLACEMENT OF EXISTING DRAINAGE STRUCTURES REMOVED FOR CONSTRUCTION OF NEW DRAINAGE FACILITIES.
22. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS REGARDING TRENCH SAFETY.
23. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY OAR.
24. THE CONTRACTOR SHALL CONTACT THE TOWN OF ADDISON PUBLIC WORKS AND ENGINEERING DEPARTMENT PRIOR TO ANY SIGN REMOVAL. SIGN REMOVAL AND REINSTALLATION/RELOCATION SHALL BE IN GOOD CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITION, AND AS PER THE ENGINEER'S SPECIFICATIONS, WITH THE COST INCIDENTAL TO THE PROJECT BID ITEMS.
25. ALL THE EXISTING SURFACE FEATURES WITHIN LIMITS OF PROJECT, INCLUDING, BUT NOT LIMITED TO PAVEMENTS, SIDEWALKS, TRAILS, LANDSCAPE, FENCES, MAILBOXES, LIGHT POLES, SIGNS, PROPERTY CORNER MONUMENTS, ETC. SHALL BE THOROUGHLY DOCUMENTED PRIOR TO CONSTRUCTION WITH PICTURES AND VIDEOS; AND RESTORED AFTER CONSTRUCTION TO THE SAME OR BETTER CONDITIONS WITH EQUAL OR BETTER MATERIALS. THE EXISTING PAVEMENT SHALL BE SAW-CUT ON BOTH SIDES OF THE PROPOSED STORM DRAIN TRENCH AND REPLACED IN KIND PER TOWN'S STANDARD DETAILS. THE FEATURES NOT SPECIFICALLY LISTED I THE BID SCHEDULE ARE SUBSIDIARY TO LISTED BID ITEMS.
26. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITIES TO THOSE AREAS WITHIN THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS. ANY DAMAGE CAUSED BY THE CONTRACTOR OUTSIDE OF THE DESIGNATED WORK AREA SHALL BE REPAIRED WITH EQUAL OR BETTER QUALITY MATERIAL AT THE CONTRACTOR'S EXPENSE.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL PRECAUTIONS TO PROTECT EXISTING TREES OUTSIDE THE SCOPE OF THIS PROJECT. TREES SHALL ONLY BE REMOVED IF DESIGNATED ON THE PLANS.
28. WHERE TREES, PLANTS, SHRUBBERY, ETC. ARE ADJACENT TO THE LINE OF WORK AND ARE NOT TO BE REMOVED OR REMOVED AND REPLACED, THE CONTRACTOR SHALL PROTECT SUCH TREES, PLANTS, SHRUBBERY, ETC. IF SUCH TREES, PLANTS, SHRUBBERY, ETC. COULD BE DAMAGED BY MACHINERY, ETC., ORANGE SAFETY FENCING WITH STEEL T-POSTS HAVING A MINIMUM HEIGHT OF 3' AND AS APPROVED BY THE TOWN SHALL BE UTILIZED FOR PROTECTION. HAND EXCAVATION MAY ALSO BE REQUIRED IN THE VICINITY OF TREES, PLANTS, SHRUBBERY, ETC. THAT ARE TO REMAIN. THE CONTRACTOR SHALL NOT PERMIT MACHINERY OR EMPLOYEES TO SCRAPE, TEAR THE LIMBS FROM, DAMAGE OR ATTACH GUY CABLES TO EXISTING TREES THAT ARE TO REMAIN IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO ADJACENT TREES, PLANTS, SHRUBBERY, ETC. THAT ARE TO REMAIN AND ANY SUCH DAMAGE SHALL BE REMEDIED TO THE SATISFACTION OF THE TOWN.
29. ANY TREE PRUNING SHALL BE COORDINATED WITH THE TOWN'S PARKS DEPARTMENT.
30. ALL EXISTING GRADES SHOWN ON THE PLANS ARE APPROXIMATE AND SHOWN BASED ON THE BEST INFORMATION AVAILABLE.
31. THE CONTRACTOR SHALL KEEP THE EXISTING FIRE HYDRANTS IN SERVICE AT ALL TIMES.
32. THE CONTRACTOR SHALL MAINTAIN THE EXISTING WATER MAINS IN SERVICE DURING ALL PHASES OF CONSTRUCTION AT NO EXTRA PAY. LEAKS CAUSED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. LEAKS ALONG THE EXISTING WATER MAIN CLOSE TO THE WORKING AREA, CAUSED BY VIBRATION, ETC. (DURING WORKING HOURS) SHALL BE REPAIRED BY THE CONTRACTOR WITH THE TOWN ONLY PROVIDING THE REQUIRED PARTS. THE TOWN WILL REPAIR ALL LEAKS IF THE CONTRACTOR IS NOT ON THE JOB-SITE (PRIMARILY AFTER WORKING HOURS); IF THE LEAK IS DIRECTLY CAUSED BY THE CONTRACTOR AND NOT REPAIRED, ALL CHARGES INCURRED SHALL BE BILLED TO THE CONTRACTOR.
33. "SHEETING, SHORING AND BRACING": THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS GOVERNING EXCAVATION. TRENCH SIDE SLOPES SHALL MEET OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS THAT ARE IN EFFECT AT THE TIME OF BID OPENING. SHEETING, SHORING AND BRACING SHALL BE PROVIDED WHEN SIDE SLOPES STANDARDS ARE NOT MET. A PULL BOX, MEETING OSHA STANDARDS, MAY BE ACCEPTABLE, UNLESS NEGATED BY GROUNDWATER CONTROL MEASURES. THE APPARENT LOW BIDDER SHALL SUBMIT DETAILED PLANS AND SPECIFICATIONS FOR TRENCH SAFETY SYSTEM THAT MEET OSHA STANDARDS THAT ARE IN EFFECT AT THE TIME OF BID OPENING. THESE PLANS SHALL BE SEALED BY AN ENGINEER LICENSED BY THE STATE OF TEXAS AND SUBMITTED TO THE TOWN PRIOR TO THE FORMAL EXECUTION OF THE CONTRACT.
34. THE CONTRACTOR WILL FURNISH TO THE TOWN OF ADDISON THE NAME OF AN OSHA-CERTIFIED COMPETENT PERSON TO BE ON THE PROJECT AT ALL TIMES DURING ONGOING CONSTRUCTION ACTIVITIES.
35. CONTRACTOR SHALL CONFORM ACTIVITIES TO THE CONTRACTOR PREPARED SWPPP AS SPECIFIED, INCLUDING INSTALLING, MAINTAINING, AND REMOVING POLLUTION CONTROLS, CONDUCTING AND DOCUMENTING INSPECTIONS OF POLLUTION CONTROLS, SPRINKLING FOR DUST CONTROL, MAINTAINING SPILL RESPONSE EQUIPMENT ON-SITE, AND "GOOD HOUSEKEEPING". POLLUTION CONTROLS INCLUDE SILT FENCES (OR STRAW BALES), STABILIZED CONSTRUCTION ENTRANCE, ESTABLISHING GRASS, SPRINKLING FOR DUST CONTROL.
36. THE CONTRACTOR SHALL CEASE ALL CONSTRUCTION OPERATIONS IMMEDIATELY IF A SUSPECTED ARCHEOLOGICAL OBJECT/ARTIFACT IS UNCOVERED DURING CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY CONTACT THC AND THE TOWN. PROJECT WORK SHALL BE RECOMMENCE UNTIL PROPER PERMITS ARE IN PLACE AND PROVIDED TO THE TOWN.
37. IRRIGATION AND SPRINKLER SYSTEM NOTES:
   A) ALL ACTIVITIES THAT IMPACT EXISTING OR PROPOSED IRRIGATION SYSTEMS SHALL BE OVERSEEN BY A TEXAS LICENSED LANDSCAPE IRRIGATOR.
   B) PRIOR TO DEMOLITION OR CONSTRUCTION ACTIVITIES, EXISTING IRRIGATION SYSTEMS SHALL BE TURNED ON. THE LOCATION OF THE HEADS, VALVES, AND PIPE SHALL BE MARKED WHERE DEMOLITION OR CONSTRUCTION WILL IMPACT THE SYSTEM. DEFICIENCIES IN THE SYSTEM SHALL BE NOTED AND REPORTED TO THE SYSTEM OWNER.
   C) PIPING SHALL BE CUT, CAPPED, AND MARKED AT THE LIMITS OF CONSTRUCTION.
   D) AT THE COMPLETION OF CONSTRUCTION, THE LICENSED IRRIGATOR SHALL RESTORE AND TEST THE IRRIGATION SYSTEMS FOR PROPER FUNCTION. THE TESTS SHALL BE CONDUCTED IN THE PRESENCE OF THE TOWN'S REPRESENTATIVE AND THE SYSTEM OWNERS.
   E) THE CONTRACTOR SHALL MAINTAIN IRRIGATION OF LANDSCAPED AREAS ADJACENT TO THE PROJECT WHILE THE EXISTING IRRIGATION SYSTEM IS BEING MODIFIED.

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STATE OF TEXAS
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NOV 07, 2019

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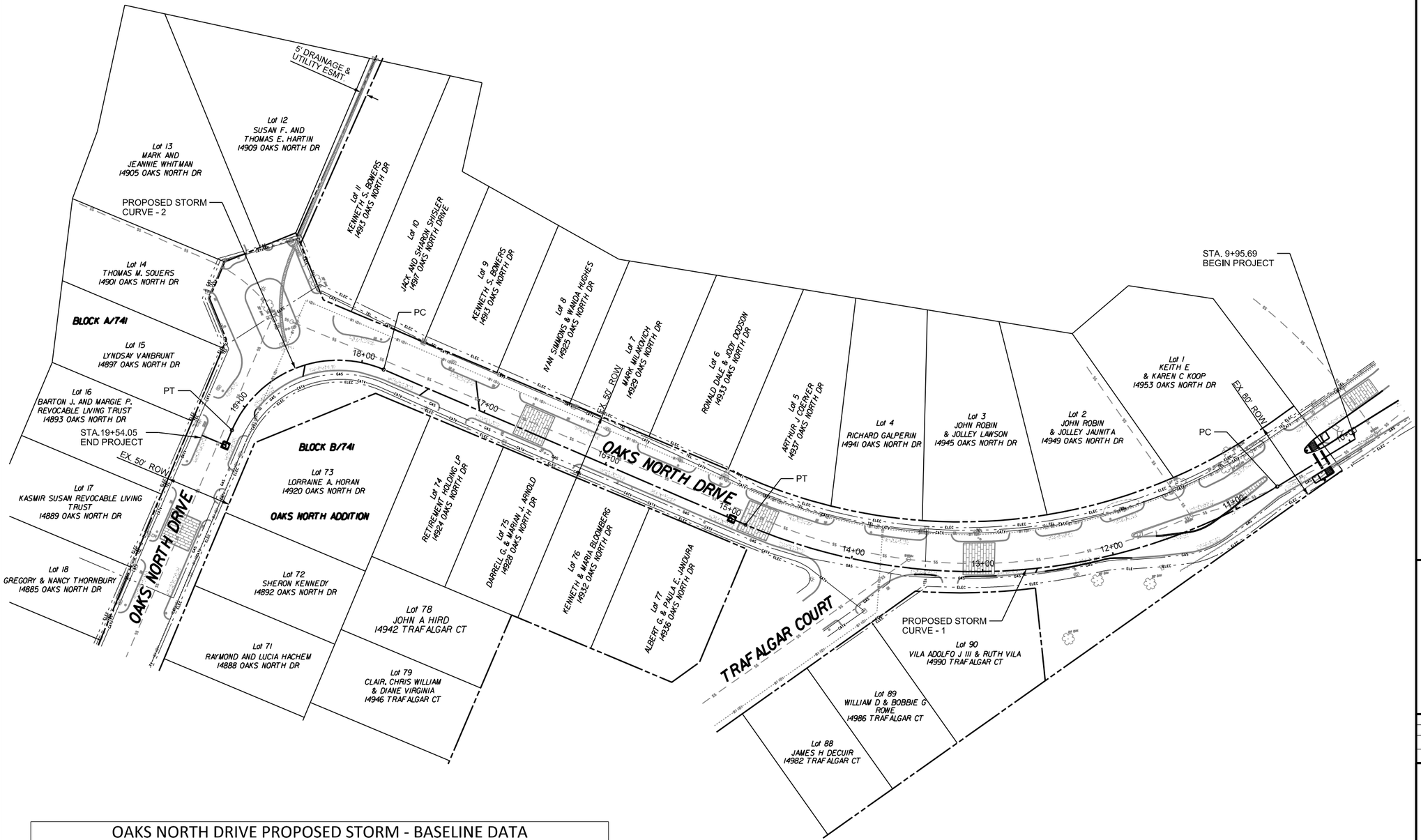
GENERAL NOTES
(SHEET 1 OF 1)

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	GN-01	3

DATE: 11/18/2020
TIME: 12:02:27 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_General_Notes-01.dgn



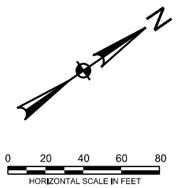
OAKS NORTH DRIVE PROPOSED STORM - BASELINE DATA

STATION	DESCRIPTION	NORTHING	EASTING	BEARING
9+95.69	BEGIN	7,034,680.01	2,485,862.46	S 3° 11' 46.87" W
10+64.92	PC	7,034,610.89	2,485,858.60	PROPOSED STORM CURVE-1
12+92.15	PI	7,034,384.02	2,485,845.93	PROPOSED STORM CURVE-1
14+84.42	PT	7,034,263.01	2,485,653.61	S 57° 49' 18.30" W
17+82.64	PC	7,034,104.19	2,485,401.20	PROPOSED STORM CURVE-2
18+70.14	PI	7,034,057.59	2,485,327.14	PROPOSED STORM CURVE-2
19+20.08	PT	7,033,983.53	2,485,373.74	S 32° 16' 15.31" E
19+34.57	PI	7,033,971.28	2,485,381.47	S 57° 46' 07.23" W
19+54.05	END	7,033,960.89	2,485,364.99	

OAKS NORTH DRIVE PROPOSED STORM - CURVE DATA

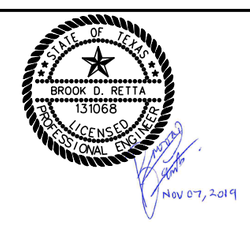
CURVE	PI STATION	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	PC STATION	PT STATION
PROPOSED STORM CURVE-1	12+92.15	54° 37' 31.43" (RT)	13° 01' 18.37"	227.22'	419.49'	440.00'	10+64.92	14+84.42
PROPOSED STORM CURVE-2	18+70.14	90° 00' 00.00" (LT)	65° 28' 51.21"	87.50'	137.44'	87.50'	17+82.64	19+20.08

BENCHMARKS & CONTROL POINTS				
POINT	*NORTHING*	*EASTING*	*ELEVATION*	*DESCRIPTION*
COA-10	*7,033,108.643*	*2,486,403.339*	*593.89*	*2" BRASS DISK STAMPED "TXDOT COA-10 GPS"*
COA-5	*7,036,216.214*	*2,482,155.872*	*630.10*	*2" BRASS DISK STAMPED "TXDOT COA-5 GPS"*



RECORD DRAWINGS

THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE FACILITIES ACCORDING TO THESE PLANS AS APPROVED BY THE TOWN OF ADDISON. THE OWNER OR ENGINEER DID NOT VERIFY LINES OR GRADES AFTER CONSTRUCTION AND IS NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED BASED ON INFORMATION PROVIDED BY:
JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229



REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

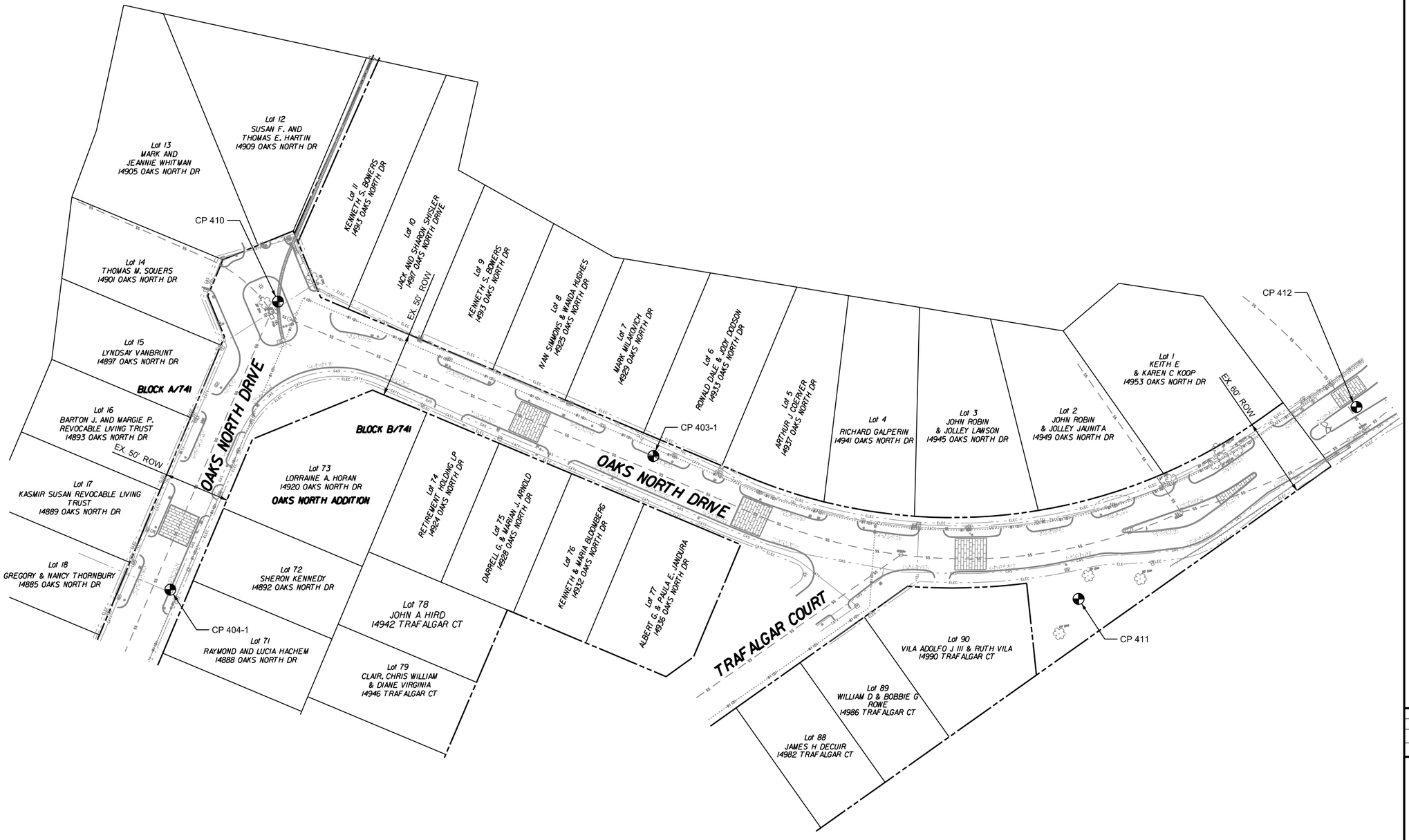
HORIZONTAL ALIGNMENT DATA
(SHEET 1 OF 1)

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

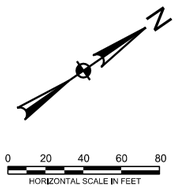
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	HORIZ. ALIGN DATA	4

DATE: 11/19/2020
TIME: 2:20:16 PM
FILE NAME: N:\PROJECTR\14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\14285001_Horizontal_Alignment_Data.dgn



CONTROL POINT DATA						
CONTROL POINT	GRID NORTHING	GRID EASTING	SURFACE NORTHING	SURFACE EASTING	ELEVATION	DESCRIPTION
COA-10	7,032,148.713	2,486063.976	7,033,108.643	2,486,403.339	593.89	2"BRASS DISK STAMPED"TXDOT COA-10 GPS"
COA-5	7,035,255.859	2,481,817.089	7,036,216.214	2,482,155.872	630.10	2"BRASS DISK STAMPED"TXDOT COA-5 GPS"
403-1	7,033,276.892	2,485,236.665	7,034,236.976	2,485,575.915	593.32	SET "X CUT"
404-1	7,032,915.274	2,485,111.076	7,033,875.309	2,485,450.309	610.83	SET "X CUT"
410	7,033,107.934	2,484,976.715	7,034,068.995	2,485,315.929	599.21	PK NAIL
411	7,033,482.181	2,485,510.935	7,034,442.294	2,485,850.222	578.45	PK NAIL
412	7,033,740.151	2,485,510.869	7,034,700.299	2,485,850.156	568.44	SET "X CUT"

GRID TO SURFACE: TxDOT DALLAS COUNTY SCALE FACTOR OF 1.000136506.
HORIZONTAL DATA BASED ON NORTH AMERICAN DATUM OF 1983 (NAD '83).
COORDINATES ARE ON TEXAS STATE PLANE COORDINATE SYSTEM, NORTH CENTRAL ZONE (4202).
VERTICAL DATUM BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88).



NOTES:

1. CONTROL IS BASED UPON TOWN OF ADDISON PUBLISHED CONTROL POINTS COA-10 AND COA-5. SURFACE ADJUSTMENT FACTOR IS 1.000136506.
2. INFORMATION SHOWN HEREON IS BASED UPON DOCUMENTS OF RECORD AND SHOULD NOT BE CONSTRUED AS BOUNDARY SURVEY.

RECORD DRAWINGS

THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE FACILITIES ACCORDING TO THESE PLANS AS APPROVED BY THE TOWN OF ADDISON. THE OWNER OR ENGINEER DID NOT VERIFY LINES OR GRADES AFTER CONSTRUCTION AND IS NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED BASED ON INFORMATION PROVIDED BY:
JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

S. Kevin Wendell 10/28/19
S. Kevin Wendell, RPLS No. 5500
Registered Professional Land Surveyor
State of Texas

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

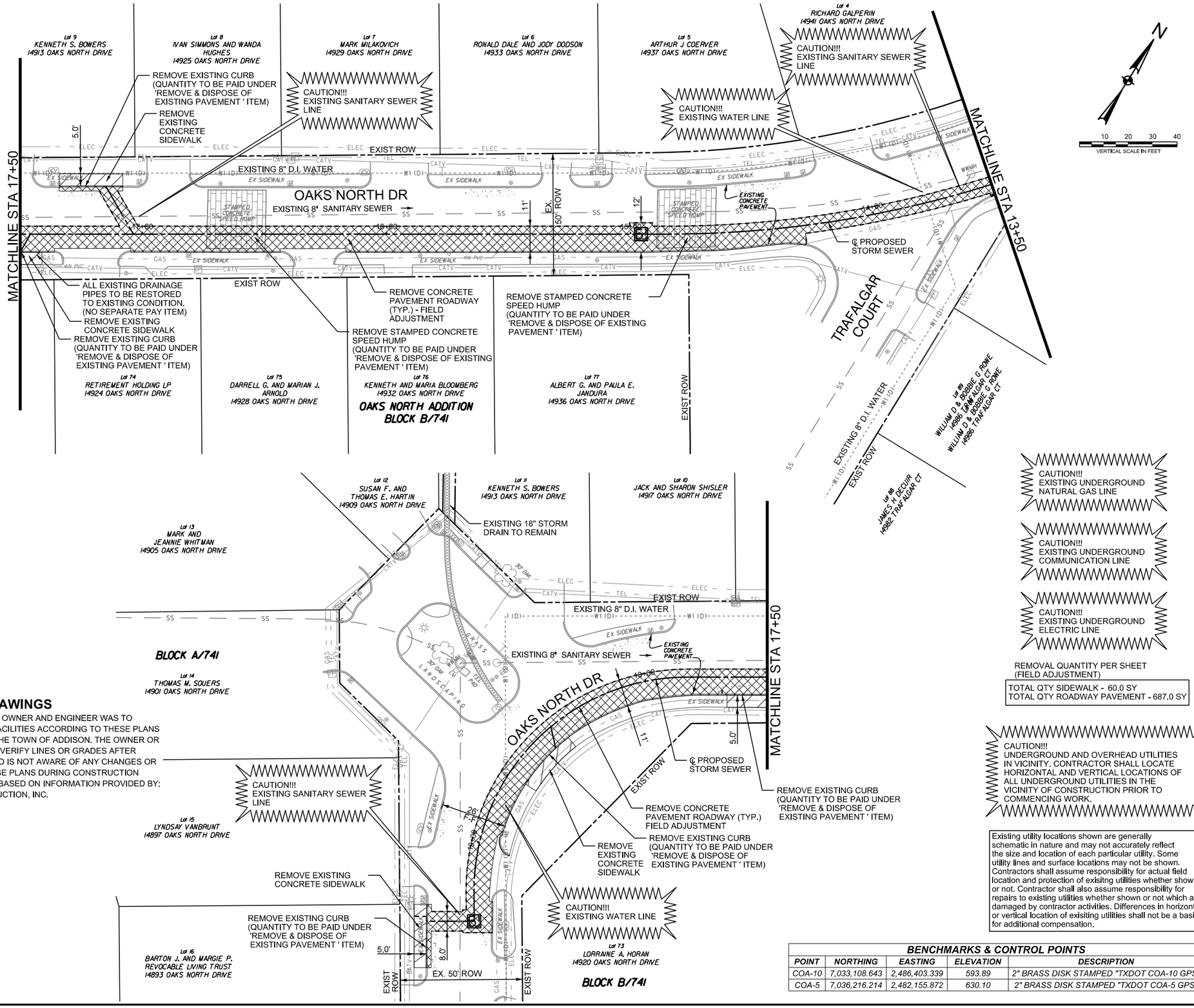
ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

SURVEY CONTROL AND ROW MAP
(SHEET 1 OF 1)
OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	OCT 2019	AS SHOWN	R14285.01	SURVEY CONTROL	5

DATE: 11/18/2020
TIME: 12:09:53 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\14285501_Survey_Control.dgn



RECORD DRAWINGS

THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE FACILITIES ACCORDING TO THESE PLANS AS APPROVED BY THE TOWN OF ADDISON. THE OWNER OR ENGINEER DID NOT VERIFY LINES OR GRADES AFTER CONSTRUCTION AND IS NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED BASED ON INFORMATION PROVIDED BY:
JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

REMOVAL QUANTITY PER SHEET (FIELD ADJUSTMENT)

TOTAL QTY SIDEWALK - 60.0 SY
TOTAL QTY ROADWAY PAVEMENT - 687.0 SY

CAUTION!!! UNDERGROUND AND OVERHEAD UTILITIES IN VICINITY. CONTRACTOR SHALL LOCATE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UNDERGROUND UTILITIES IN THE VICINITY OF CONSTRUCTION PRIOR TO COMMENCING WORK.

Existing utility locations shown are generally schematic in nature and may not accurately reflect the size and location of each particular utility. Some utility lines and surface locations may not be shown. Contractors shall assume responsibility for actual field location and protection of exisitng utilities whether shown or not. Contractor shall also assume responsibility for repairs to existing utilities whether shown or not which are damaged by contractor activities. Differences in horizontal or vertical location of exisiting utilities shall not be a basis for additional compensation.

CAUTION!!! EXISTING UNDERGROUND NATURAL GAS LINE

CAUTION!!! EXISTING UNDERGROUND COMMUNICATION LINE

CAUTION!!! EXISTING UNDERGROUND ELECTRIC LINE

BENCHMARKS & CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
COA-10	7,033,108.643	2,486,403.339	593.89	2" BRASS DISK STAMPED "TXDOT COA-10 GPS"
COA-5	7,036,216.214	2,482,155.872	630.10	2" BRASS DISK STAMPED "TXDOT COA-5 GPS"

REMOVAL LEGEND

- REMOVE CONCRETE SIDEWALK
- REMOVE CONCRETE PAVEMENT, ROADWAY (FULL DEPTH)
- SAWCUT LINE (NO SEPARATE PAY ITEM)
- REMOVE MONOLITHIC CURB
- TREE
- FENCE
- LIGHT POLE
- TELEPHONE PEDESTAL
- TELEPHONE PULL BOX
- CABLE TV SPLICE BOX
- WASTEWATER MANHOLE
- WATER METER
- WATER VALVE
- IRRIGATION CONTROL DEVICE
- MAILBOX

NOTES:

1. REMOVAL SHALL BE PHASED AS SHOWN ON THE TRAFFIC CONTROL PLANS. SEE TRAFFIC CONTROL PLANS FOR MORE INFORMATION.
2. ALL EXISTING TREES, LANDSCAPING, FENCING, GATES, PRIVATE SIGNS, AND RELATED APPURTENANCES THAT SHALL REMAIN OR BE RELOCATED MUST BE PROTECTED AGAINST CONSTRUCTION DAMAGES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES.
3. ALL EXISTING FEATURES ARE BASED ON BEST AVAILABLE RECORDS AND FIELD DATA PERFORMED BY CRIADO, DATED MARCH, 2019. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING FEATURES BEFORE BEGINNING ANY CONSTRUCTION.
4. SAWCUT EXISTING PAVEMENT AT ALL PAVEMENT REMOVAL LIMITS. ALL SAWCUTS SHALL BE FULL DEPTH. SAWCUT CONCRETE PAVEMENT INTO SMALLER PIECES AND LIFT WITH LOADER. NO JACK HAMMERING, GUILLOTINE CRUSHERS OR OTHER EQUIPMENT THAT CAUSES VIBRATORY SOIL (NO SEPARATE PAY ITEM).
5. CONTRACTOR TO MAINTAIN MAIL SERVICE ALONG OAKS NORTH DRIVE DURING CONSTRUCTION.
6. POSITIVE DRAINAGE MUST BE MAINTAINED AT ALL TIMES.
7. TOWN INSPECTOR WILL DETERMINE FINAL PAVEMENT REMOVAL LIMITS. ACTUAL LIMITS OF REMOVAL MAY VARY BASED ON SITE CONDITIONS.

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

REMOVAL PLAN STA. 13+50 TO END

OAKS NORTH DRIVE DRAINAGE IMPROVEMENTS

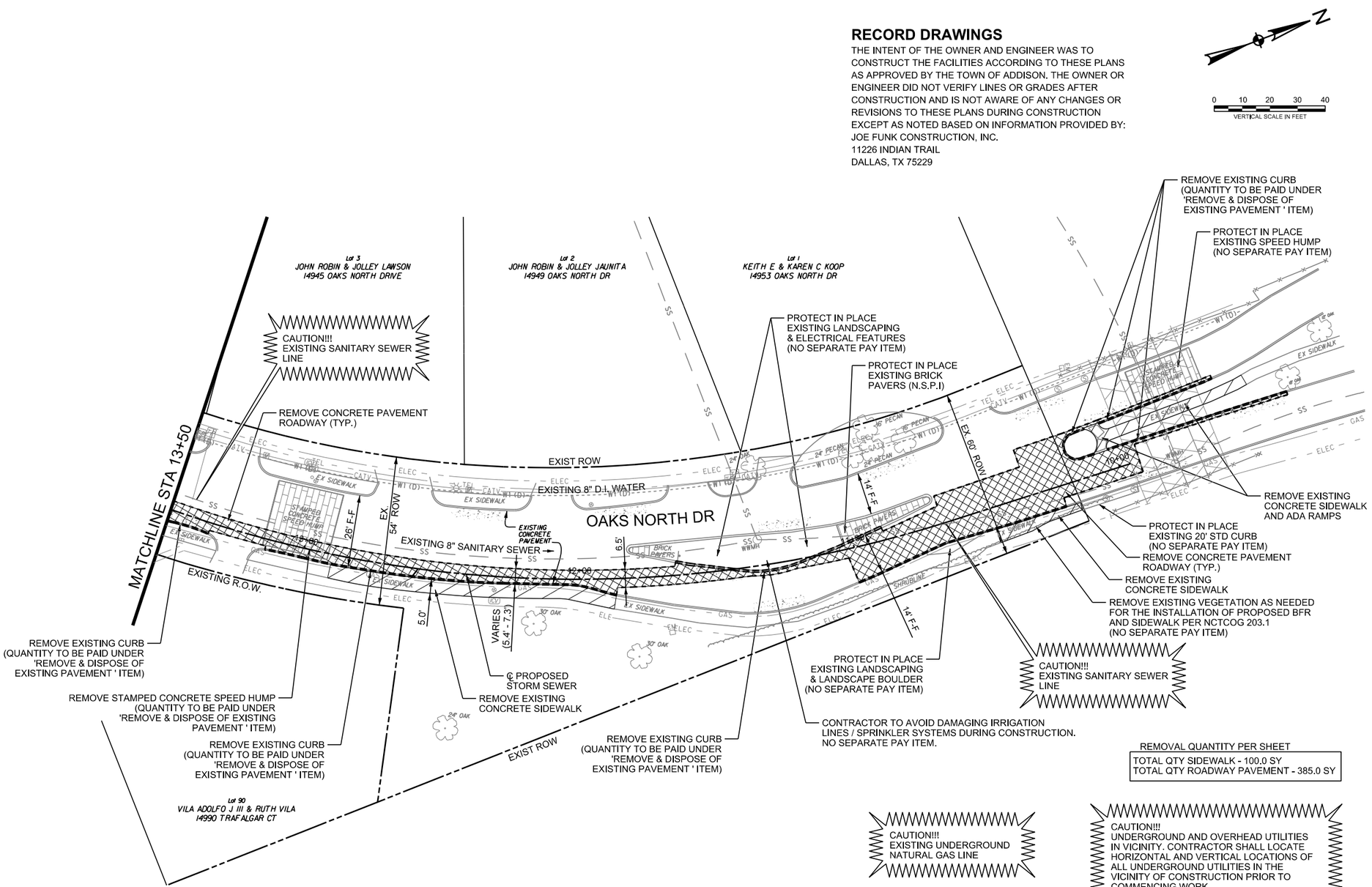
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	REM-01	6

DATE: 11/18/2020
TIME: 12:08:08 PM
FILE NAME: \\fs1\data\PROJECTS\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_REM_01.dgn

RECORD DRAWINGS

THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE FACILITIES ACCORDING TO THESE PLANS AS APPROVED BY THE TOWN OF ADDISON. THE OWNER OR ENGINEER DID NOT VERIFY LINES OR GRADES AFTER CONSTRUCTION AND IS NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED BASED ON INFORMATION PROVIDED BY:
JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229



REMOVAL QUANTITY PER SHEET

TOTAL QTY SIDEWALK - 100.0 SY
TOTAL QTY ROADWAY PAVEMENT - 385.0 SY

CAUTION!!! EXISTING UNDERGROUND NATURAL GAS LINE

CAUTION!!! EXISTING UNDERGROUND COMMUNICATION LINE

CAUTION!!! EXISTING UNDERGROUND ELECTRIC LINE

CAUTION!!! UNDERGROUND AND OVERHEAD UTILITIES IN VICINITY. CONTRACTOR SHALL LOCATE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UNDERGROUND UTILITIES IN THE VICINITY OF CONSTRUCTION PRIOR TO COMMENCING WORK.

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BENCHMARKS & CONTROL POINTS

POINT	*NORTHING*	*EASTING*	*ELEVATION*	*DESCRIPTION*
COA-10	*7,033,108.643*	*2,486,403.339*	*593.89*	*2" BRASS DISK STAMPED "TXDOT COA-10 GPS"*
COA-5	*7,036,216.214*	*2,482,155.872*	*630.10*	*2" BRASS DISK STAMPED "TXDOT COA-5 GPS"*

REMOVAL LEGEND

- REMOVE CONCRETE SIDEWALK
- REMOVE CONCRETE PAVEMENT, ROADWAY (FULL DEPTH)
- SAWCUT LINE (NO SEPARATE PAY ITEM)
- REMOVE MONOLITHIC CURB
- TREE
- FENCE
- LIGHT POLE
- TP — TELEPHONE PEDESTAL
- TSB — TELEPHONE PULL BOX
- CTVP — CABLE TV SPLICE BOX
- WWMH — WASTEWATER MANHOLE
- WATER METER
- WATER VALVE
- ICV — IRRIGATION CONTROL DEVICE
- M — MAILBOX

NOTES:

1. REMOVAL SHALL BE PHASED AS SHOWN ON THE TRAFFIC CONTROL PLANS. SEE TRAFFIC CONTROL PLANS FOR MORE INFORMATION.
2. ALL EXISTING TREES, LANDSCAPING, FENCING, GATES, PRIVATE SIGNS, AND RELATED APPURTENANCES THAT SHALL REMAIN OR BE RELOCATED MUST BE PROTECTED AGAINST CONSTRUCTION DAMAGES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES.
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4. SAWCUT EXISTING PAVEMENT AT ALL PAVEMENT REMOVAL LIMITS. ALL SAWCUTS SHALL BE FULL DEPTH. SAWCUT CONCRETE PAVEMENT INTO SMALLER PIECES AND LIFT WITH LOADER. NO JACK HAMMERING, GUILLOTINE CRUSHERS OR OTHER EQUIPMENT THAT CAUSES VIBRATORY SOIL (NO SEPARATE PAY ITEM).
5. CONTRACTOR TO MAINTAIN MAIL SERVICE ALONG OAKS NORTH DRIVE DURING CONSTRUCTION.
6. POSITIVE DRAINAGE MUST BE MAINTAINED AT ALL TIMES.
7. TOWN INSPECTOR WILL DETERMINE FINAL PAVEMENT REMOVAL LIMITS. ACTUAL LIMITS OF REMOVAL MAY VARY BASED ON SITE CONDITIONS.

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED
PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

REMOVAL PLAN
BEGIN TO STA. 13+50

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	REM-02	7

DATE: 11/18/2020
TIME: 2:56:14 PM
FILE NAME: \\fs1\data\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\14285\01_REM_02.dgn

TRAFFIC CONTROL GENERAL NOTES

1. MAINTENANCE OF TRAFFIC AND TRAFFIC CONTROL MEASURES IMPLEMENTED DURING CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), LATEST REVISION, AND THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) TRAFFIC PROJECT ENGINEERING STANDARDS BC, WZ, AND TCP.

2. THESE TRAFFIC CONTROL PLANS SERVE AS A GUIDE FOR THE SEQUENCING OF CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THESE TRAFFIC CONTROL PLANS DO NOT ATTEMPT TO ADDRESS EVERY ASPECT OF CONSTRUCTION THAT IS REQUIRED OR COULD BE ENCOUNTERED DURING EACH PHASE OF CONSTRUCTION. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY OF CONSTRUCTING THE PROPOSED IMPROVEMENTS AND PROVIDING FOR THE SAFE HANDLING OF TRAFFIC AND WORKER PROTECTION DURING CONSTRUCTION.

3. THE CONTRACTOR HAS THE OPTION TO PREPARE AND SUBMIT AN ALTERNATE TRAFFIC CONTROL PLAN FOR THE PROJECT. PROJECT ENGINEER TO REVIEW. THE CONTRACTOR SHALL NOT IMPLEMENT ANY SUCH ALTERNATE PLAN WITHOUT THE PRIOR WRITTEN APPROVAL OF THE PROJECT ENGINEER. THE ALTERNATE CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL PLAN SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS. THE CONTRACTOR WILL NOT BE COMPENSATED FOR THE DESIGN OF ALTERNATE CONSTRUCTION SEQUENCE/ TRAFFIC CONTROL PLAN WHETHER ACCEPTED OR REJECTED BY THE PROJECT ENGINEER AND ANY SUCH EFFORT SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT.

4. THE PROJECT ENGINEER MAY DIRECT THE CONTRACTOR TO FURNISH AND INSTALL ADDITIONAL TRAFFIC CONTROL MEASURES BEYOND THAT SHOWN IN THE TRAFFIC CONTROL PLANS AS REQUIRED TO MAINTAIN SAFETY OF THE TRAVELING PUBLIC, PEDESTRIANS, AND THE CONTRACTOR DURING CONSTRUCTION. ANY SUCH ADDITIONAL TRAFFIC CONTROL MEASURES WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT.

5. THE CONTRACTOR SHALL ENSURE THAT ALL IMPLEMENTED TRAFFIC CONTROL MEASURES ARE MAINTAINED IN A CLEAN AND FUNCTIONAL CONDITION AT ALL TIMES, INCLUDING MAINTENANCE DUE TO ACTS OF VANDALISM OR ACCIDENT. THE CONTRACTOR SHALL HAVE ADEQUATE REPLACEMENT TRAFFIC CONTROL DEVICES AVAILABLE, AT ALL TIMES, TO REPLACE THOSE SO DAMAGED.

6. IN ADDITION TO THE ONES SHOWN ON THE TRAFFIC CONTROL PLANS, THE CONTRACTOR SHALL HAVE TRAILER MOUNTED FLASHING ARROW PANELS AVAILABLE (IN WORKING ORDER) AT ALL TIMES AT THE PROJECT, TO BE USED WHEN NEEDED AS DIRECTED BY THE PROJECT ENGINEER. TRAILER MOUNTED FLASHING ARROW PANELS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT.

7. FLAGGER CONTROL SHALL BE IMPLEMENTED WHEN REQUIRED BY THE STANDARDS OR AS DIRECTED BY THE PROJECT ENGINEER TO PROVIDE FOR THE SAFE HANDLING OF TRAFFIC DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. FLAGGER CONTROL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT.

8. THE CONTRACTOR SHALL IMPLEMENT TRAFFIC CONTROL MEASURES AS REQUIRED BY THE TMUTCD, LATEST EDITION, AND AS DIRECTED BY THE PROJECT ENGINEER TO GUIDE AND DIRECT PEDESTRIANS THROUGH, OR AROUND, AS APPLICABLE, THE VARIOUS CONSTRUCTION ZONES. PEDESTRIAN ROUTES SHALL BE ADEQUATELY FENCED OFF OR SEPARATED FROM UTILITY WORK ZONES TO PREVENT PEDESTRIAN ACCESS TO POTENTIALLY DANGEROUS AREAS. SUCH TRAFFIC CONTROL MEASURES REQUIRED TO MEET THESE PROVISIONS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT.

9. THE CONTRACTOR SHALL INSTALL APPROPRIATE CHANNELIZING DEVICES, AT SPACING SPECIFIED BY THE TMUTCD FOR THE POSTED SPEED INDICATED. CHANNELIZING DEVICES SHALL BE PLACED ALONG THE LIMITS OF CONSTRUCTION ZONE AND TRAVEL WAYS TO DELINEATE ONGOING CONSTRUCTION OPERATIONS AND TO PROVIDE FOR THE SAFE HANDLING OF TRAFFIC DURING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. SUCH CHANNELIZING DEVICES SHALL BE LOCATED ALONG THE PERIMETER OF THE CONSTRUCTION ZONE AND SHALL NOT BE PLACED WITHIN TRAVEL LANES THAT ARE SCHEDULED TO REMAIN OPEN. SUCH TRAFFIC CONTROL MEASURES PROVIDED TO MEET THESE REQUIREMENTS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT.

10. THE CONTRACTOR SHALL NOTIFY LOCAL POLICE AND FIRE DEPARTMENT OFFICIALS OF IMPENDING CONSTRUCTION PHASE TRAFFIC SHIFTS AND LANE CLOSURES TWO WORKING DAYS PRIOR TO SHIFTS OR CLOSURES.

11. THE CONTRACTOR SHALL INSTALL SAFETY FENCING AND SHORING MEASURES OF THE SIZE AND TYPE REQUIRED BY FEDERAL AND STATE REGULATIONS AROUND ALL OPEN EXCAVATIONS AT THE END OF EACH WORK DAY AND WHEN WORKERS ARE PRESENT OR ABSENT FROM THE OPEN EXCAVATIONS, OR AS DIRECTED BY THE PROJECT ENGINEER. SUCH FENCING SHALL NOT OBSTRUCT SIGHT LINES OF THE TRAVELING PUBLIC. ANY SUCH CONSTRUCTION FENCING REQUIRED TO MEET THIS PROVISION SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT.

12. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING TEMPORARY DRAINAGE THROUGHOUT THE PROJECT LIMITS DURING ALL CONSTRUCTION PHASES TO ENSURE SAFE ROAD CONDITIONS AND PREVENT FLOODING OF PROPERTIES AND IMPROVEMENTS ADJACENT TO THE PROJECT AREA. SUCH WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT.

13. THE CONTRACTOR SHALL COMPLETELY REMOVE EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS OR THE INTENT THEREOF. METHODS FOR THE REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THE CONTRACTOR COMMENCING ANY REQUIRED REMOVAL OF EXISTING PAVEMENT MARKINGS. THE PAVEMENT MARKINGS SHALL BE REMOVED BY ANY METHOD THAT DOES NOT MATERIALLY DAMAGE THE SURFACE OR TEXTURE OF THE PAVEMENT. PAVEMENT MARKING REMOVAL BY OVER-PAINTING IS PROHIBITED. SUCH MEASURES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT.

14. AFTER INSTALLATION OF DRAINAGE STRUCTURES, STORM SEWERS, PUBLIC OR PRIVATE UTILITY FACILITY BY OPEN CUT BENEATH EXISTING PAVEMENTS CARRYING TRAFFIC DURING CONSTRUCTION, THE PAVEMENT SHALL BE RESTORED TO PROVIDE STRUCTURALLY SOUND SUPPORT AND SATISFACTORY RIDING SURFACE, PRIOR TO RE-OPENING ROADWAY TO TRAFFIC.

15. THE CONTRACTOR SHALL COVER OR TEMPORARILY REMOVE EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS OR THE INTENT THEREOF. EXISTING SIGNS THAT DO NOT CONFLICT WITH THE TRAFFIC CONTROL PLANS OR THE INTENT THEREOF BUT REQUIRE RELOCATION DUE TO PHYSICAL CONFLICTS SHALL NOT BE RELOCATED UNTIL THE TEMPORARY SIGN SUPPORTS HAVE BEEN INSTALLED TO ALLOW FOR THE IMMEDIATE RELOCATION OF SUCH SIGNS. SUCH MEASURES SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT.

16. ALL TRAFFIC CONTROL DEVICES THAT ARE NOT REQUIRED FOR ONGOING CONSTRUCTION OPERATIONS SHALL BE REMOVED WHEN NOT NEEDED. WHEN WORK IS SUSPENDED FOR SHORT OR EXTENDED PERIODS, ADVANCE WARNING, REGULATORY, AND/OR GUIDE SIGNS THAT ARE NO LONGER APPROPRIATE FOR THE PRESENT CONDITIONS SHALL BE REMOVED FROM THE WORK AREA OR COVERED SO THEY ARE NOT VISIBLE TO THE TRAVELING PUBLIC.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS AT ALL TIMES DURING CONSTRUCTION OF ALL OPERATIONAL SERVICES SUCH AS TRASH COLLECTION, POSTAL SERVICE, UTILITY METER READING, ETC. TO PREVENT INTERRUPTION OR DELAYS OF THE RESPECTIVE SERVICES. ACCESS TO PROPERTY ALONG THE CORRIDOR SHALL BE MAINTAINED AT ALL TIMES THROUGHOUT THE CONSTRUCTION DURATION. THIS MAINTENANCE SHALL BE COORDINATED WITH WITH THE PROJECT ENGINEER AND SHALL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED SUBSIDIARY TO THE CONTRACT.

18. WORK ZONE PAVEMENT MARKINGS SHALL BE INSTALLED PER TXDOT WZ TRAFFIC PROJECT ENGINEERING STANDARD SHEETS. WORK ZONE MARKINGS AND MATERIALS SHALL BE INSTALLED PER TXDOT ITEM 662.

19. CONTRACTOR SHALL BE RESPONSIBLE FOR CONDITION OF TEMPORARILY REMOVED EXISTING SIGNS. REMOVED SIGNS MUST BE IN SAME OR BETTER CONDITION WHEN REINSTALLED.

20. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ANY LOCAL STAGING AREA (IF AVAILABLE) WITH THE TOWN PRIOR TO IMPLEMENTATION.

21. IF ANY EXISTING UTILITIES ARE ENCOUNTERED DURING OPERATIONS AND DAMAGED THAT RESULTS IN A LOSS OF THE UTILITY TO THE RESIDENTS THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE TOWN AND REPAIR THE DAMAGE AS SOON AS POSSIBLE TO THE SATISFACTION OF THE TOWN OR THE PROJECT ENGINEER. ANY DAMAGE REPAIR SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

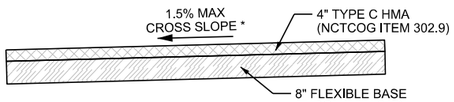
22. THE CONTRACTOR MUST MAINTAIN AN ADA AND TAS COMPLIANT PATH TO HOMES WITHIN THE WORK AREA.

23. THE CONTRACTOR MUST MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.

24. THE CONTRACTOR SHALL LIMIT DRIVEWAY CLOSURES AND BACKFILL / PLATE TRENCHES IN FRONT OF DRIVEWAYS TO MAINTAIN ACCESS AFTER HOURS OF OPERATION.

STATE OF TEXAS
KELLY C. MONCRIEF
96712
LICENSED
PROFESSIONAL ENGINEER

Kelly C. Moncrief
Nov. 7, 2019



TEMPORARY PAVEMENT FOR DETOURS
N.T.S.

NOTE:
1. TO BE PAID BY 'TEMPORARY PAVEMENT' BID ITEM - MEASURED BY SY.

'*' ADJUST SLOPE DIRECTION AS NECESSARY TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES.

SUGGESTED TRAFFIC CONTROL NARRATIVE

PRIOR TO START OF CONSTRUCTION:
INSTALL TEMPORARY EROSION CONTROL ELEMENTS.
NOTIFY PROPERTY OWNERS OF CONSTRUCTION OPERATIONS A MINIMUM OF 24 HOURS IN ADVANCE.

PHASE 1 CONSTRUCTION

LOWER EXISTING WATER MAIN AT CROSSINGS WITH PROPOSED STORM SEWER MAIN. NOTIFY PROPERTY OWNERS OF INTERMITTENT WATER SHUTDOWNS.

PHASE 2 CONSTRUCTION

INSTALL ADVANCE WARNING SIGNS AND ALL TEMPORARY SIGNS AND TRAFFIC CONTROL DEVICES AS PER NOTE 2.

CONSTRUCT PROPOSED STORM SEWER GENERALLY CONTAINED WITHIN THE NORTHBOUND LANE OF OAKS NORTH DRIVE FROM STATION 10+40 TO END OF PROJECT AS SHOWN IN PHASING PLAN.
SAWCUT, REMOVE, AND RECONSTRUCT PAVEMENT AS PER PLAN DETAILS. TEMPORARY PAVEMENT FOR TRENCH REPAIRS SHALL BE UTILIZED UNTIL PERMANENT PAVEMENT CAN BE PLACED. INLET INSTALLATION WILL REQUIRE SIDEWALK REMOVAL AND RECONSTRUCTION COINCIDENT WITH THE LIMITS OF CURB REMOVAL AND RECONSTRUCTION. SIDEWALK SHALL BE RECONSTRUCTED TO MATCH EXISTING FINISH.
AT THE CONCLUSION OF DAILY OPERATIONS, ALL OPEN TRENCH SHALL BE COVERED.
IF IN CONFLICT WITH PROPOSED STORM SEWER, EXISTING WASTEWATER SERVICES SHALL BE RECONSTRUCTED.

CONTRACTOR TO PROVIDE ONE LANE, TWO-WAY TRAFFIC CONTROL WITH FLAGGERS AND ROAD TO BE OPEN TO NORMAL OPERATION AT THE END OF EACH WORK DAY DURING THIS CONSTUCTION PHASE.
MAINTAIN MINIMUM OF ONE 10-FOOT TRAVEL LANE AT ALL TIMES.

PHASE 3 CONSTRUCTION

INSTALL ADVANCE WARNING SIGNS AND ALL TEMPORARY SIGNS AND TRAFFIC CONTROL DEVICES AS PER NOTE 2.

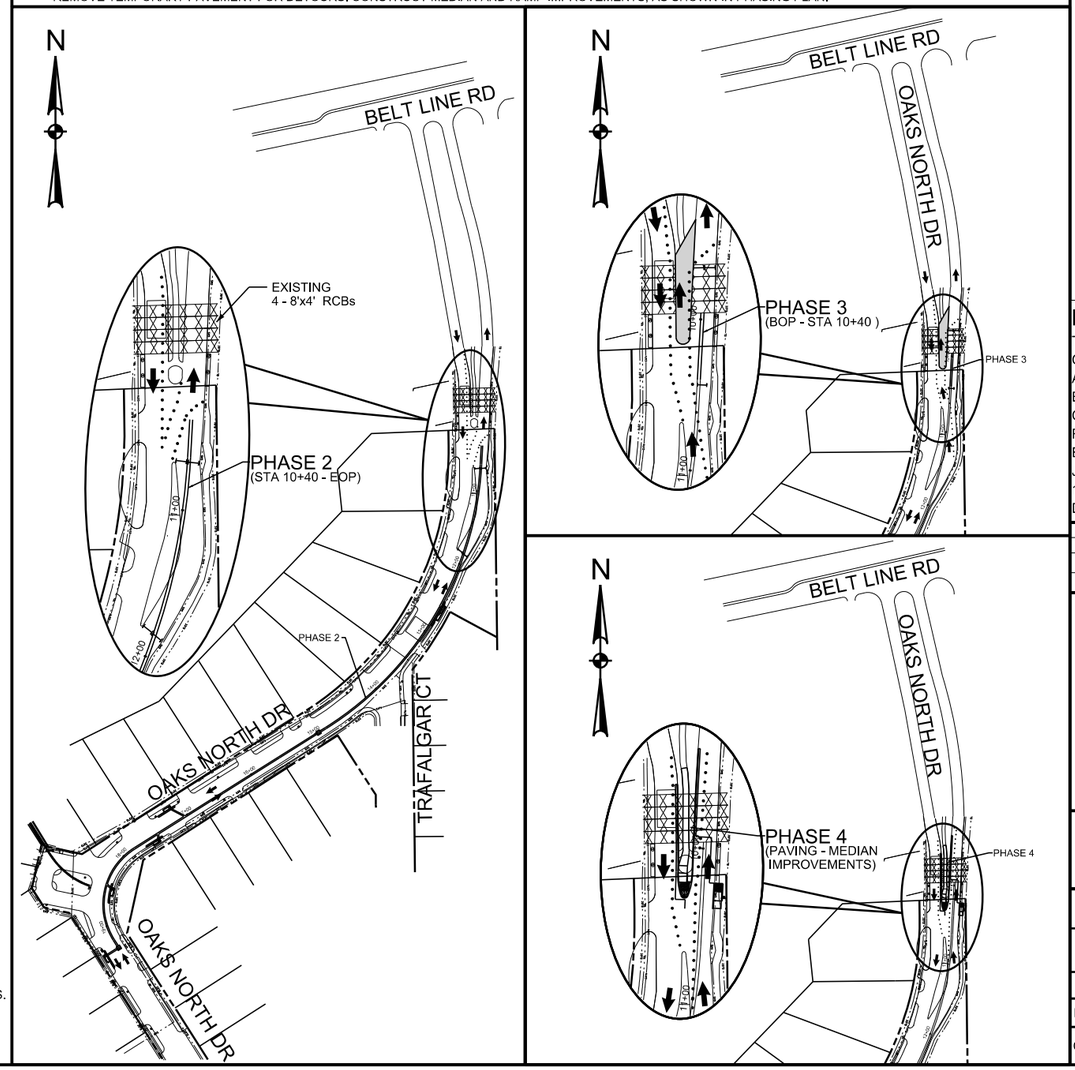
REMOVE EXISTING MEDIAN & CONSTRUCT TEMPORARY PAVEMENT AT SOUTH END OF DIVIDED ROADWAY SECTION, JUST SOUTH OF BELT LINE ROAD, TO MAINTAIN ACCESS TO / FROM BELT LINE ROAD. SEE 'TEMPORARY PAVEMENT FOR DETOURS' SECTION THIS SHEET.

CONSTRUCT PROPOSED STORM SEWER GENERALLY CONTAINED WITHIN THE NORTHBOUND LANE OF OAKS NORTH DRIVE FROM BEGINNING OF PROJECT TO STATION 10+40 AS SHOWN IN PHASING PLAN.
SAWCUT, REMOVE, AND RECONSTRUCT PAVEMENT PER PLAN DETAILS. TEMPORARY PAVEMENT FOR TRENCH REPAIRS SHALL BE UTILIZED UNTIL PERMANENT PAVEMENT CAN BE PLACED.
AT THE CONCLUSION OF DAILY OPERATIONS, ALL OPEN TRENCH SHALL BE COVERED.
MAINTAIN MINIMUM OF ONE 10-FOOT TRAVEL LANE AT ALL TIMES.

PHASE 4 CONSTRUCTION

INSTALL ADVANCE WARNING SIGNS AND ALL TEMPORARY SIGNS AND TRAFFIC CONTROL DEVICES AS PER NOTE 2.

REMOVE TEMPORARY PAVEMENT FOR DETOURS, CONSTRUCT MEDIAN AND RAMP IMPROVEMENTS, AS SHOWN IN PHASING PLAN.



TCP LEGEND

- TEMPORARY PAVEMENT (SEE SECTION THIS SHEET)
- TCP SIGN
- CHANNELIZATION DEVICES (30' MAX SPACING ON TAPER) (60' MAX SPACING ON TANGENT)
- TYPE III BARRICADE
- TRAFFIC FLOW THIS PHASE

NOTES:

1. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES ADJACENT TO CONSTRUCTION. COORDINATE ACCESS WITH ALL PROPERTY OWNERS.
2. ALL TRAFFIC CONTROL DEVICES SHALL BE TxDOT APPROVED AND SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND APPLICABLE TxDOT STANDARDS.
3. ANY DEVIATION FROM THE PLAN SHALL REQUIRE THE APPROVAL OF THE PROJECT ENGINEER.
4. THE CONTRACTOR SHALL INSTALL AND REMOVE TEMPORARY PAVEMENT AS REQUIRED TO MAINTAIN A SMOOTH DRIVING SURFACE FROM PROPOSED PAVEMENT TO EXISTING PAVEMENT TO THE SATISFACTION OF THE ENGINEER.
5. THE CONTRACTOR SHALL LEAVE NO OPEN TRENCHES AT THE END OF THE WORK DAY.
6. THE CONTRACTOR MUST MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
7. ALL ITEMS NECESSARY TO IMPLEMENT TRAFFIC CONTROL FOR CONSTRUCTION SHALL BE SUBSIDIARY TO THE 'TRAFFIC CONROL' PAY ITEM, UNLESS OTHERWISE NOTED.

RECORD DRAWINGS

THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE FACILITIES ACCORDING TO THESE PLANS AS APPROVED BY THE TOWN OF ADDISON. THE OWNER OR ENGINEER DID NOT VERIFY LINES OR GRADES AFTER CONSTRUCTION AND IS NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED BASED ON INFORMATION PROVIDED BY:
JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

TRAFFIC CONTROL PLAN
NARRATIVE AND OVERALL PHASING PLAN
OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	TCP-01	8

DATE: 11/18/2020
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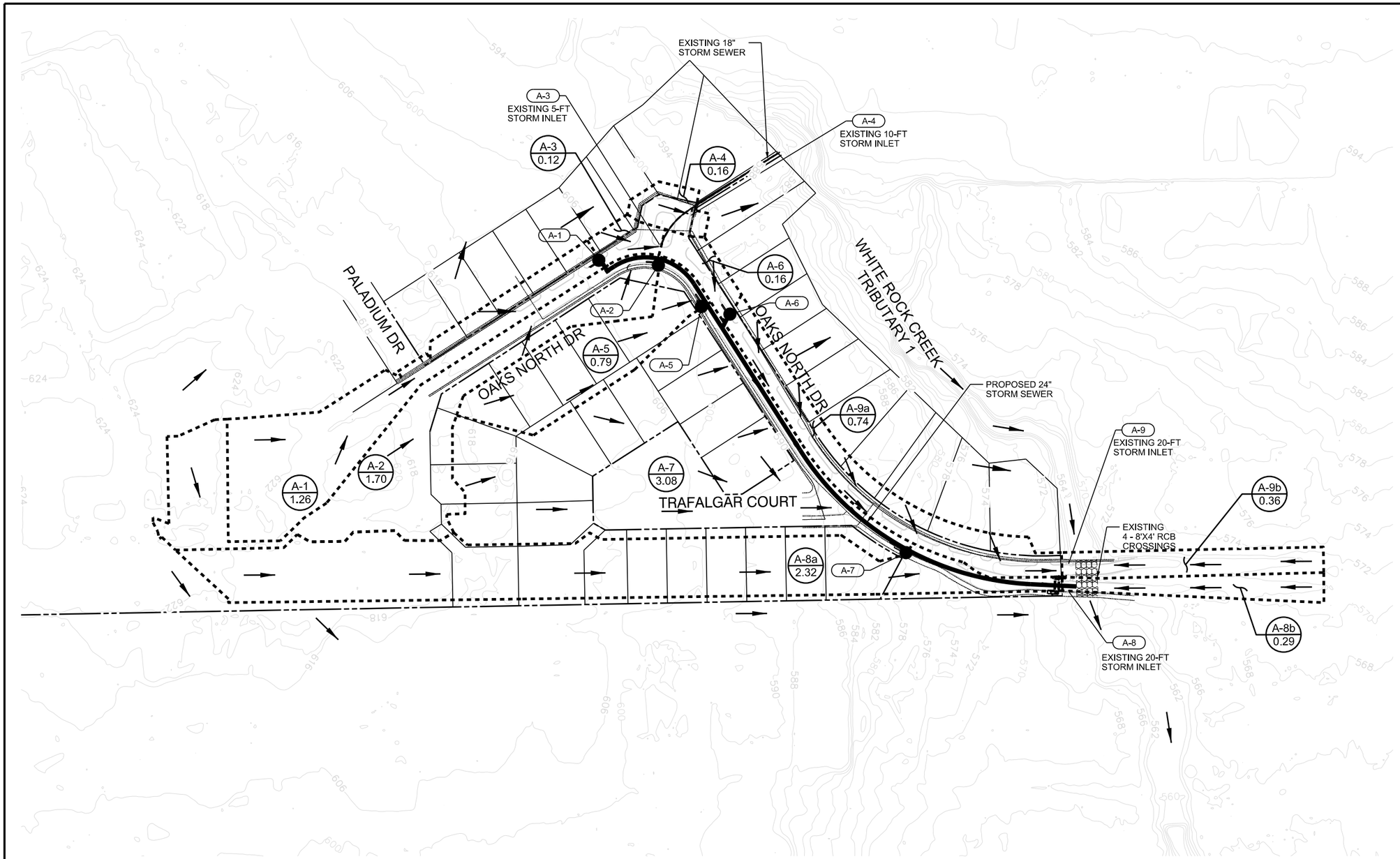

PROPOSED 100-YEAR DRAINAGE AREA CALCULATION TABLE								
DRAINAGE AREA	AREA (AC)	C	T_c (MIN)	I_{10} (IN/HR)	Q_{10} (CFS)	I_{100} (IN/HR)	Q_{100} (CFS)	COMMENTS
A-1	1.26	0.60	15.00	5.59	4.23	7.99	6.04	SINGLE FAMILY
A-2	1.70	0.60	15.00	5.59	5.70	7.99	8.15	SINGLE FAMILY
A-3	0.12	0.60	15.00	5.59	0.40	7.99	0.58	SINGLE FAMILY
A-4	0.16	0.60	15.00	5.59	0.54	7.99	0.77	SINGLE FAMILY
A-5	0.79	0.60	15.00	5.59	2.65	7.99	3.79	SINGLE FAMILY
A-6	0.16	0.60	15.00	5.59	0.54	7.99	0.77	SINGLE FAMILY
A-7	3.08	0.60	15.00	5.59	10.33	7.99	14.76	SINGLE FAMILY
A-8a	2.32	0.60	15.00	5.59	7.78	7.99	11.12	SINGLE FAMILY
A-8b	0.29	0.60	15.00	5.59	0.97	7.99	1.39	SINGLE FAMILY
A-9a	0.74	0.60	15.00	5.59	2.48	7.99	3.55	SINGLE FAMILY
A-9b	0.36	0.60	15.00	5.59	1.21	7.99	1.73	SINGLE FAMILY

RECORD DRAWINGS

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JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

N

0 40 80 120 160
HORIZONTAL SCALE IN FEET

LEGEND

- MAJOR DRAINAGE DIVIDE
- FLOW DIRECTION
- 600 — EX. CONTOUR
- XXX — DESIGN POINT
- X / X — DRAINAGE AREA LABEL / AREA (ACRES)
- EXISTING STORM SEWER
- PROPOSED STORM SEWER

NOTES:

1. CONTOURS SHOWN AS PROVIDED BY CITY GIS.

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED PROFESSIONAL ENGINEER
NOV 07, 2019

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REV NO.	DATE	DESCRIPTION	BY
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4100 SPRING VALLEY ROAD, SUITE 1001
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FIRM NO. F-4373

DRAINAGE AREA MAP

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	DAM-01	9

DATE: 11/18/2020
TIME: 2:08:56 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_DAM_01.dgn

SUMP CURB INLET CALCULATION:

INLET		D.A.	RUNOFF COEFFICIENT	SIZE	T_c	RAIN INTENSITY	Q	UPSTREAM BYPASS	ACTUAL DISCHARGE	STREET SLOPE	STREET WIDTH (F-F)	GUTTER DEPTH OF FLOW	SPREAD	FULL GUTTER FLOW CAPACITY	INLET DEPRESSION	CAPTURE PER FOOT OF INLET WITH 100%	REQUIRED INLET LENGTH	ACTUAL INLET LENGTH	REMARKS
ID	LOCATION	NO.	C	ACRES	MIN	IN/HR	CFS	CFS	Q+BYPASS	s	FT	y	z*y	CFS	a	qL	L_T	L	
									CFS	FT/FT		FT	FT		FT	CFS/FT	FT	FT	
A-4	-	A-4	0.60	0.16	15.00	7.99	0.77	0.00	0.77	0.0500	26.0	0.16	2.36	58.00	0.33	1.69	0.45	10	EXIST. 10' STD. CURB INLET
A-8	-	A-8a & A-8b	0.60	2.61	15.00	7.99	12.51	0.52	13.02	0.0168	14.0	0.41	13.98	31.66	0.33	2.08	6.28	20	EXIST. 20' STD. CURB INLET
A-9	-	A-9a & A-9b	0.60	1.10	15.00	7.99	5.27	0.00	5.27	0.0200	14.0	0.29	9.38	33.88	0.33	1.90	2.78	20	EXIST. 20' STD. CURB INLET

ON-GRADE CURB INLET CALCULATION:

INLET		D.A.	RUNOFF COEFFICIENT	SIZE	T_c	RAIN INTENSITY	Q	UPSTREAM BYPASS	ACTUAL DISCHARGE	STREET SLOPE	STREET WIDTH	GUTTER DEPTH OF FLOW	SPREAD	FULL GUTTER FLOW CAPACITY	INLET DEPRESSION	CAPTURE PER FOOT OF INLET WITH 100%	REQUIRED INLET LENGTH	ACTUAL INLET LENGTH	L/L_T	ACTUAL INLET INTERCEPTION	BYPASS FLOW	CARRYOVER TARGET	REMARKS
ID	LOCATION	NO.	C	ACRES	MIN	IN/HR	CFS	CFS	Q+BYPASS	s	FT	y	z*y	CFS	a	qL	L_T	L					
									CFS	FT/FT		FT	FT		FT	CFS/FT	FT	FT		CFS	CFS		
A-1	19+54.05, 3.50' LT	A-1	0.60	1.26	15.00	7.99	6.04	0.00	6.04	0.0535	26.0	0.25	8.03	60.00	0.33	0.55	10.95	10	0.91	5.96	0.07	A-3	PROP. 10' STD. CURB INLET
A-2	18+52.06, 8.15' LT	A-2	0.60	1.70	15.00	7.99	8.15	0.00	8.15	0.0650	26.0	0.28	8.51	68.00	0.33	0.57	14.22	10	0.70	7.23	0.92	A-5	PROP. 10' STD. CURB INLET
A-3	-	A-3	0.60	0.12	15.00	7.99	0.58	0.07	0.65	0.0650	26.0	0.12	2.89	68.00	0.33	0.43	1.51	5	3.31	0.65	0.00	N/A	EXIST. 5' STD. CURB INLET
A-5	17+51.51, 7.42' LT	A-5	0.60	0.79	15.00	7.99	3.79	0.92	4.70	0.0125	26.0	0.26	12.17	30.00	0.33	0.56	8.39	10	1.19	4.70	0.00	N/A	PROP. 10' STD. CURB INLET
A-6	17+18.49, 19.64' RT	A-6	0.60	0.16	15.00	7.99	0.77	0.00	0.77	0.0075	26.0	0.17	5.26	22.00	0.33	0.48	1.61	10	6.22	0.77	0.00	N/A	PROP. 10' STD. CURB INLET
A-7	12+68.81, 3.29' LT	A-7	0.60	3.08	15.00	7.99	14.76	0.00	14.76	0.0600	26.0	0.33	11.98	64.00	0.33	0.62	23.67	20	0.84	14.24	0.52	A-8	PROP. 20' STD. CURB INLET

RECORD DRAWINGS

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11226 INDIAN TRAIL
DALLAS, TX 75229

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED
PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
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ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

INLET CALCULATIONS
(SHEET 1 OF 1)

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	CALCS-01	10

DATE: 11/18/2020
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FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_CALCS_01.dgn

Oaks North Drive - 100-Year Frequency Hydraulic Calculations

FROM	TO	PIPE LENGTH FT	DRAINAGE AREA INCREMENTAL AREA NO.	DRAINAGE AREA INCREMENTAL AREA AREA AC	DRAINAGE AREA TOTAL AREA AC	RUNOFF "C"	INC. Ca	TOTAL CA	TIME OF CONCENTRATION INLET TIME MIN	TIME OF CONCENTRATION TRAVEL TIME MIN	TIME OF CONCENTRATION TOTAL TIME MIN	100-YEAR INTENSITIES IN/HR	Q_{100} RUNOFF CFS	PIPE SIZE IN	Sf ft/ft	HGL D/S ELEV	HGL U/S ELEV	V1 (IN) FPS	V2 (OUT) FPS	Jump Calculation	DESIGN HGL	INVERT ELEV. FROM	INVERT ELEV. TO	T/C OR RIM ELEV	REMARKS
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
SD LINE A																									
19+34.57	19+54.05	19.48	A-1	1.24	1.24	0.60	0.75	0.75	15.00	0.13	15.13	7.99	5.96	21	0.0014	600.53	601.75	0.00	2.48	0.12	601.75	598.78	600.00	605.00	INLET A-1
18+51.36	19+34.57	83.21			1.24		0.00	0.75	15.13	0.56	15.69	7.99	5.96	21	0.0014	595.12	600.53	2.48	2.48	0.07	600.53	593.37	598.78	-	4'x4' SD MH
18+43.47	18+51.36	7.89			1.24		0.00	0.75	15.69	0.05	15.74	7.99	5.96	21	0.0014	594.60	595.12	2.48	2.48	0.05	595.12	592.85	593.37	-	CONDUIT ON CURVE
18+00.00	18+43.47	43.47	A-2	1.51	2.75	0.60	0.91	1.65	15.74	0.13	15.88	7.99	13.20	21	0.0069	591.78	594.60	2.48	5.49	0.43	594.60	590.03	592.85	-	60D WYE, LAT A-2
17+43.73	18+00.00	56.27			2.75		0.00	1.65	15.88	0.17	16.05	7.99	13.20	21	0.0069	590.99	591.78	5.49	5.49	0.00	591.78	589.24	590.03	-	GRADE BREAK
17+03.64	17+43.73	40.09	A-5	0.98	3.73	0.60	0.59	2.24	16.05	0.09	16.14	7.78	17.43	21	0.0121	590.43	590.99	5.49	7.25	0.61	590.99	588.68	589.24	-	60D WYE, LAT A-5
14+95.69	17+03.64	207.95	A-6	0.16	3.89	0.60	0.10	2.34	16.14	0.46	16.60	7.78	18.17	21	0.0132	587.52	590.43	7.25	7.56	0.54	590.43	585.77	588.68	-	60D WYE, LAT A-6
13+80.00	14+95.69	115.69			3.89		0.00	2.34	16.60	0.26	16.85	7.78	18.17	21	0.0132	582.89	587.52	7.56	7.56	0.38	587.52	581.14	585.77	-	4'x4' SD MH
12+74.67	13+80.00	105.33			3.89		0.00	2.34	16.85	0.23	17.08	7.78	18.17	21	0.0132	575.52	582.89	7.56	7.56	0.00	582.89	573.77	581.14	-	GRADE BREAK
12+62.25	12+74.67	12.42			3.89		0.00	2.34	17.08	0.03	17.11	7.58	17.71	21	0.0125	574.65	575.52	7.56	7.36	0.36	575.52	572.90	573.77	-	CONDUIT ON CURVE
12+58.25	12+62.25	4.00			3.89		0.00	2.34	17.11	0.01	17.12	7.58	17.71	24	0.0061	574.44	574.65	7.36	5.64	0.08	574.65	572.44	572.65	-	'Begin 21" RCP, End 24" RCP
10+90.00	12+58.25	168.25	A-7	2.97	6.87	0.60	1.78	4.12	17.12	0.28	17.41	7.58	31.23	24	0.0191	569.96	574.44	5.64	9.94	1.32	574.44	563.60	572.44	-	60D WYE, LAT A-7
9+95.69	10+90.00	94.31			6.87		0.00	4.12	17.41	0.16	17.56	7.58	31.23	24	0.0191	568.06	569.86	9.94	9.94	0.00	569.96	561.86	563.60	-	GRADE BREAK
																					568.06				OUTFALL, 4 - 8'x4' RCBs
LAT A-2																									
0+00.00	0+09.15	9.15	A-2	1.51	1.51	0.60	0.91	0.91	15.00	0.04	15.04	7.99	7.23	18	0.0047	594.60	594.90	0.00	4.09	0.33	594.90	592.98	593.40	598.40	INLET A-2
																					594.60				CONNECT TO SD LINE A
LAT A-5																									
0+00.00	0+08.56	8.56	A-5	0.98	0.98	0.60	0.59	0.59	15.00	0.05	15.05	7.99	4.70	18	0.0020	590.99	591.01	0.00	2.66	0.14	591.15	589.37	589.50	594.50	INLET A-5
																					590.99				CONNECT TO SD LINE A
LAT A-6																									
0+00.00	0+22.70	22.70	A-6	0.16	0.16	0.60	0.10	0.10	15.00	0.87	15.87	7.99	0.77	18	0.0001	590.43	590.70	0.00	0.43	0.00	590.70	588.80	589.20	594.20	INLET A-6
																					590.43				CONNECT TO SD LINE A
LAT A-7																									
0+00.00	0+03.77	3.77	A-7	2.97	2.97	0.60	1.78	1.78	15.00	0.01	15.01	7.99	14.24	18	0.0184	574.44	575.60	0.00	8.06	1.26	575.60	572.69	574.10	579.60	INLET A-7
																					574.44				CONNECT TO SD LINE A

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RECORD DRAWINGS

THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE FACILITIES ACCORDING TO THESE PLANS AS APPROVED BY THE TOWN OF ADDISON. THE OWNER OR ENGINEER DID NOT VERIFY LINES OR GRADES AFTER CONSTRUCTION AND IS NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED BASED ON INFORMATION PROVIDED BY:
JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
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ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

HYDRAULIC CALCULATIONS
(SHEET 1 OF 1)

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	CALCS-02	11

CAUTION!!!
EXISTING UNDERGROUND
NATURAL GAS LINE

CAUTION!!!
EXISTING UNDERGROUND
COMMUNICATION LINE

CAUTION!!!
EXISTING WATER LINE

CAUTION!!!
EXISTING UNDERGROUND
ELECTRIC LINE

CAUTION!!!
EXISTING SANITARY SEWER
LINE

(1) STA 18+43.47 SD LINE 'A' =
STA 0+00.00 SD LAT 'A-2'
INSTALL 21" X 18" 60° WYE

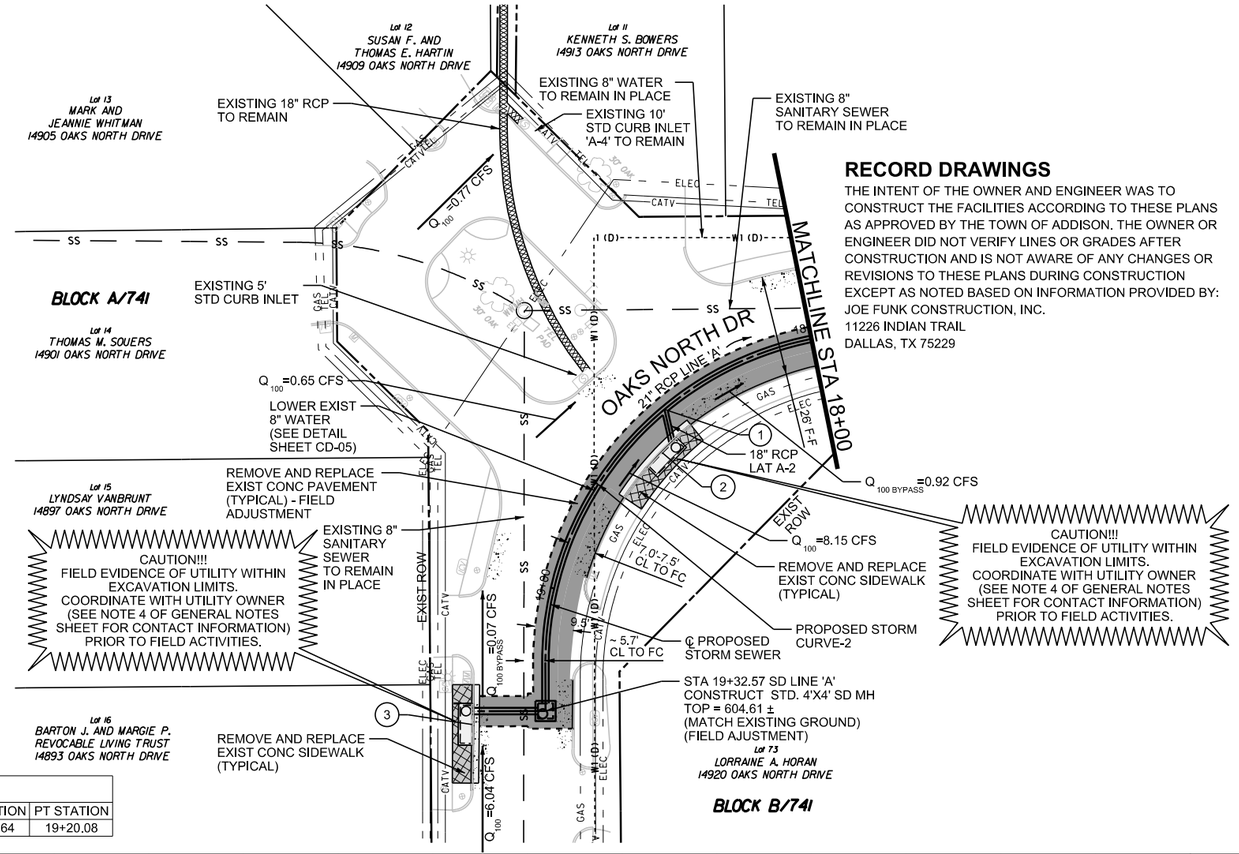
(2) STA 0+09.15 SD LAT 'A-2' =
STA 18+52.06
SD LINE 'A', 8.15' LT
INSTALL
10' STD CURB INLET 'A-2'
TC = 598.40 ±
FL 18" = 593.40

(3) STA 19+52.05
SD LINE 'A', 3.50' LT
INSTALL
10' STD CURB INLET 'A-1'
TC = 605.00 ±
FL 21" = 600.00
(FIELD ADJUSTMENT)

BENCHMARKS & CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
COA-10	7,033,108.643	2,486,403.339	593.89	2" BRASS DISK STAMPED "TXDOT COA-10 GPS"
COA-5	7,036,216.214	2,482,155.872	630.10	2" BRASS DISK STAMPED "TXDOT COA-5 GPS"

OAKS NORTH DRIVE PROPOSED STORM - CURVE DATA

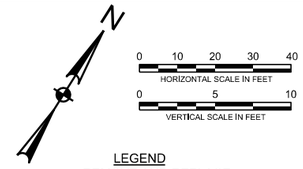
CURVE	PI STATION	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	PC STATION	PT STATION
PROPOSED STORM CURVE-2	18+70.14	90° 00' 00.00" (LT)	65° 28' 51.21"	87.50'	137.44'	87.50'	17+82.64	19+20.08



RECORD DRAWINGS

THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE FACILITIES ACCORDING TO THESE PLANS AS APPROVED BY THE TOWN OF ADDISON. THE OWNER OR ENGINEER DID NOT VERIFY LINES OR GRADES AFTER CONSTRUCTION AND IS NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED BASED ON INFORMATION PROVIDED BY:
JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

NOTES
1. FIELD EVIDENCE OF EXISTING UTLITIES IN VICINITY OF PROPOSED CURB INLET LOCATIONS. CONTRACTOR SHALL FIELD VERIFY EXISTING UTILITY CROSSINGS PRIOR TO START OF CONSTRUCTION OR ORDERING OF MATERIALS.



LEGEND
- REMOVE AND REPLACE REINFORCED CONCRETE PAVEMENT (HIGH EARLY STRENGTH)
- REMOVE AND REPLACE REINFORCED CONCRETE SIDEWALK (EXPOSED AGGREGATE)
- SAWCUT LINE (NO SEPARATE PAY ITEM)
- PROPOSED STORM SEWER
- DESIGN POINT

NOTES:
1. UNLESS NOTED, UTILITY CROSSING LOCATIONS BASED ON ASSUMED DEPTHS AND SHALL BE UNCOVERED AND VERIFIED BY CONTRACTOR PRIOR TO START OF CONSTRUCTION.
2. SLOPES SHOWN BASED ON HYDRAULIC LENGTH OF PIPE SEGMENT (CENTER OF NODE TO CENTER OF NODE) LENGTHS SHOWN ARE ACTUAL LENGTH OF PIPE.
3. INLET CONTROL POINT STA/OFF SHOWN AT CENTER LINE OF INLET BOX AT BACK OF CURB.
4. POSITIVE DRAINAGE MUST BE MAINTAINED AT ALL TIMES.
5. PROPOSED INLETS TOPS AND SURFACE OF PROPOSED SIDEWALK SHALL BE EXPOSED AGGREGATE (MATCH EXISTING SURFACE).
6. STARTING HYDRAULIC GRADE LINE ELEVATION IS BASED ON THE STORMWATER SYSTEM ASSESSMENT AND STUDY PERFORMED BY HALFF ASSOCIATES ON AUGUST, 2017.
7. TOWN INSPECTOR WILL DETERMINE FINAL PAVEMENT REMOVAL LIMITS. ACTUAL LIMITS OF REMOVAL MAY VARY BASED ON SITE CONDITIONS.
8. SANITARY SEWER SERVICES ARE TO BE CONSTRUCTED TO CLEAR EXISTING AND PROPOSED FACILITIES. THE SANITARY SEWER LATERAL SHALL HAVE A MIN. COVER OF 4' BELOW THE CURB GRADE AT THE PROPERTY LINE, OR AS REQUIRED TO MAINTAIN A MINIMUM OF 1.00% GRADE, OR AS DIRECTED BY THE OWNER.
9. NO SEPARATE PAY ITEM FOR PAVEMENT REPAIR HEADER. THIS ITEM SHALL BE SUBSIDIARY TO REINFORCED CONCRETE PAVEMENT ITEM.
10. TEMPORARY PAVEMENT FOR TRENCH REPAIRS SHALL BE SUBSIDIARY TO THE FURNISHING AND INSTALLATION OF REINFORCED CONCRETE PIPE. TEMPORARY MAINTENANCE MATERIAL FOR TRENCH REPAIRS ASSOCIATED WITH PIPE INSTALLATION SHOULD INCLUDE 2" TYPE C HMA OVER 6" OF FLEXIBLE BASE.

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

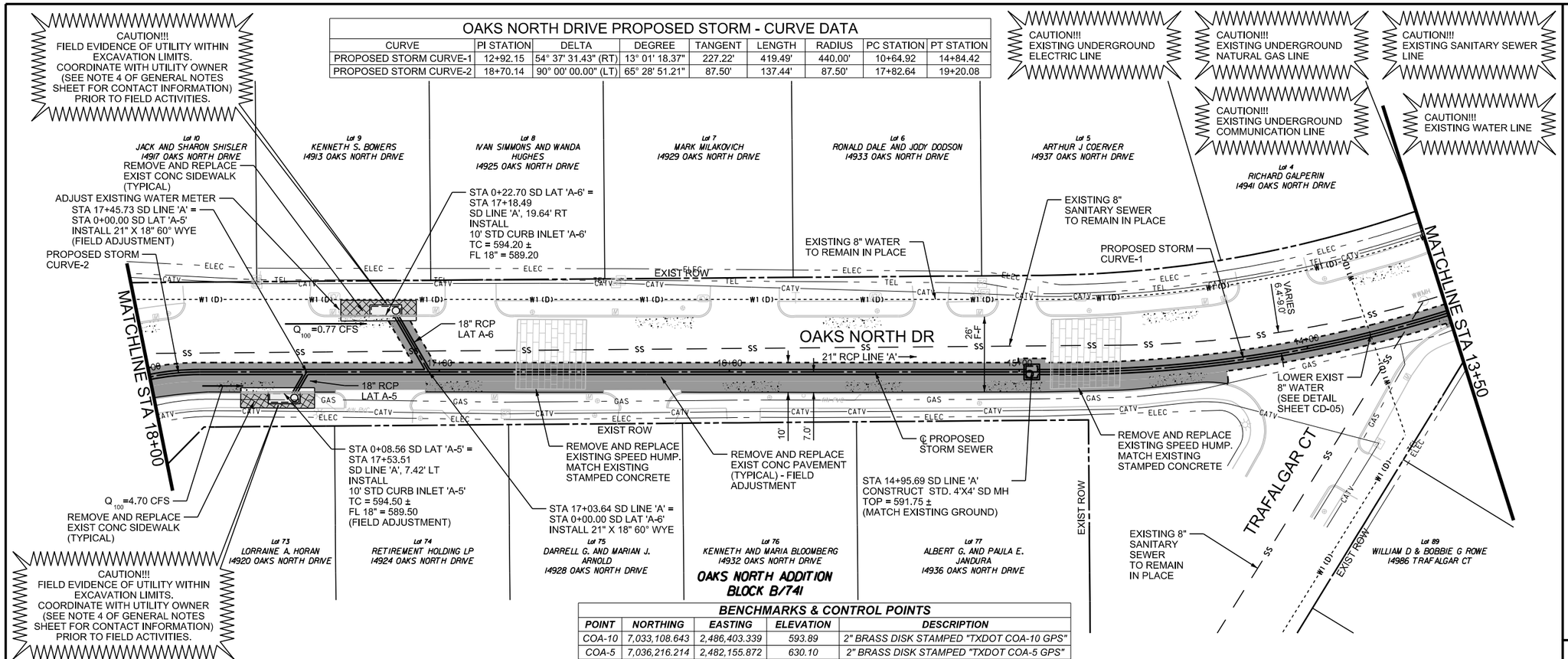
DRAINAGE PLAN & PROFILE
STA. 18+00 TO END
OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	DRN-01	12

DATE: 11/18/2020
TIME: 1:39:58 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\14285l01_DRN_01.dgn

OAKS NORTH DRIVE PROPOSED STORM - CURVE DATA

CURVE	PI STATION	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	PC STATION	PT STATION
PROPOSED STORM CURVE-1	12+92.15	54° 37' 31.43" (RT)	13° 01' 18.37"	227.22'	419.49'	440.00'	10+64.92	14+84.42
PROPOSED STORM CURVE-2	18+70.14	90° 00' 00.00" (LT)	65° 28' 51.21"	87.50'	137.44'	87.50'	17+82.64	19+20.08



BENCHMARKS & CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
COA-10	7,033,108.643	2,486,403.339	593.89	2" BRASS DISK STAMPED "TXDOT COA-10 GPS"
COA-5	7,036,216.214	2,482,155.872	630.10	2" BRASS DISK STAMPED "TXDOT COA-5 GPS"

RECORD DRAWINGS

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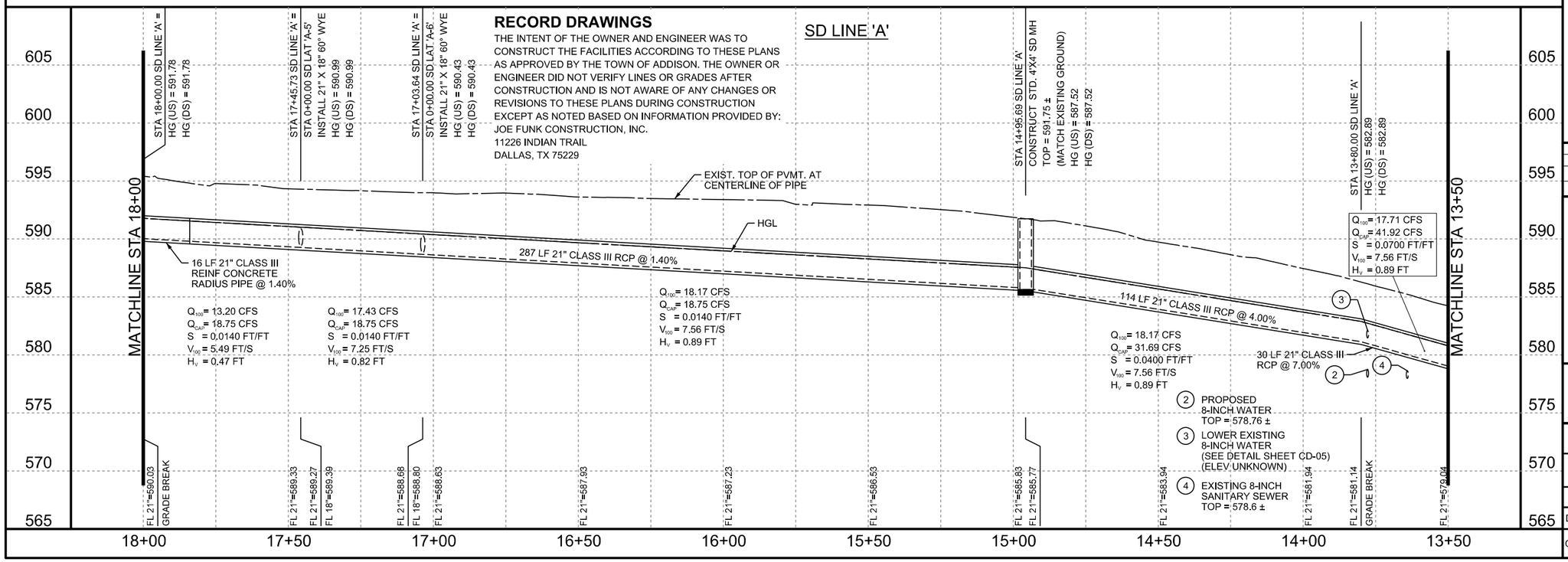
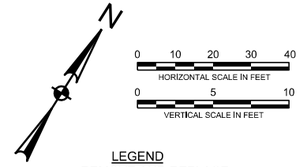
JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229





LEGEND

- REMOVE AND REPLACE REINFORCED CONCRETE PAVEMENT (HIGH EARLY STRENGTH)
- REMOVE AND REPLACE REINFORCED CONCRETE SIDEWALK (EXPOSED AGGREGATE)
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- PROPOSED STORM SEWER
- DESIGN POINT

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STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

DRAINAGE PLAN & PROFILE STA. 13+50 TO STA. 18+00

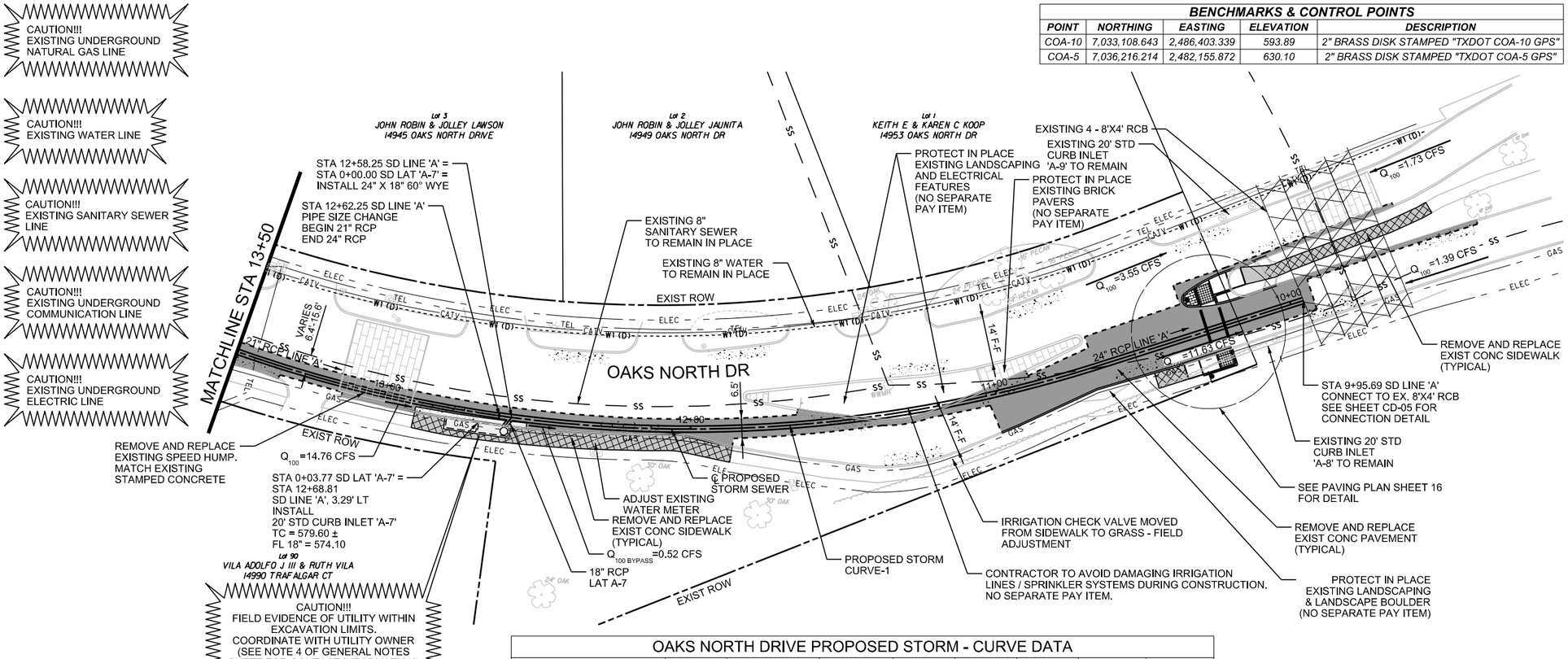
OAKS NORTH DRIVE DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	DRN-02	13

DATE: 11/18/2020
TIME: 2:09:41 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_DRN_02.dgn

BENCHMARKS & CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
COA-10	7,033,108.643	2,486,403.339	593.89	2" BRASS DISK STAMPED "TXDOT COA-10 GPS"
COA-5	7,036,216.214	2,482,155.872	630.10	2" BRASS DISK STAMPED "TXDOT COA-5 GPS"



OAKS NORTH DRIVE PROPOSED STORM - CURVE DATA								
CURVE	PI STATION	DELTA	DEGREE	TANGENT	LENGTH	RADIUS	PC STATION	PT STATION
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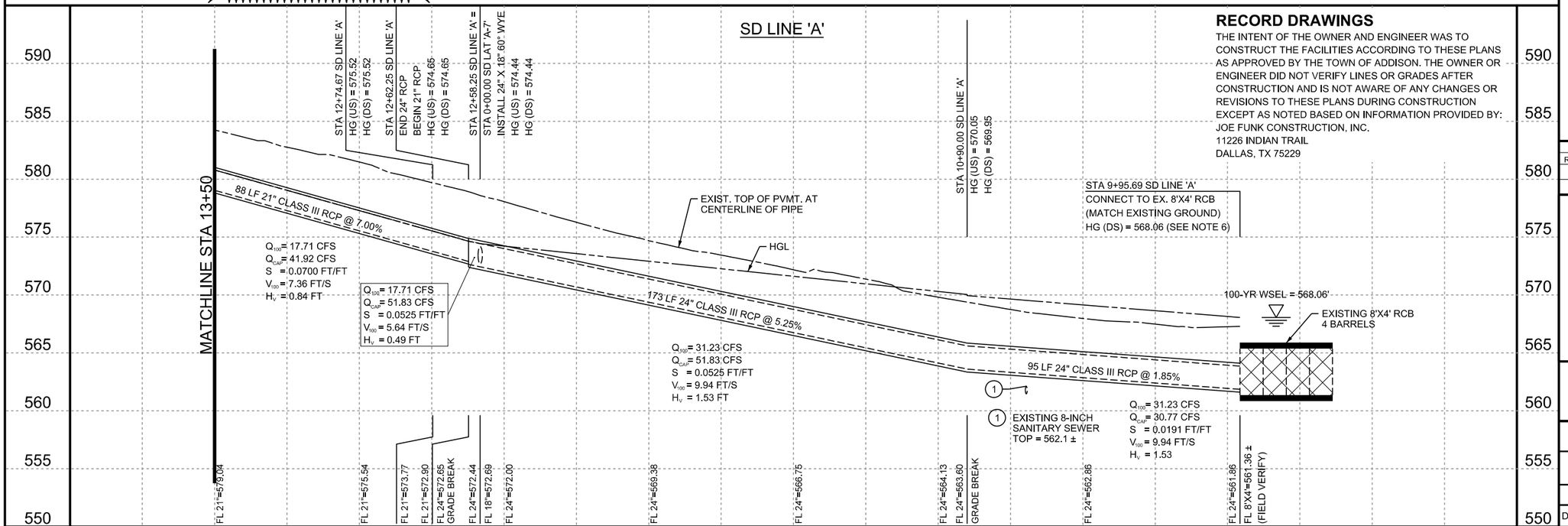

RECORD DRAWINGS

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JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

HORIZONTAL SCALE IN FEET: 0 10 20 30 40
VERTICAL SCALE IN FEET: 0 5 10

LEGEND
- REMOVE AND REPLACE REINFORCED CONCRETE PAVEMENT (HIGH EARLY STRENGTH)
- REMOVE AND REPLACE REINFORCED CONCRETE SIDEWALK (EXPOSED AGGREGATE)
- SAWCUT LINE (NO SEPARATE PAY ITEM)
- PROPOSED STORM SEWER
- DESIGN POINT

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STATE OF TEXAS · BROOK D. RETTA · 131068 · LICENSED PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

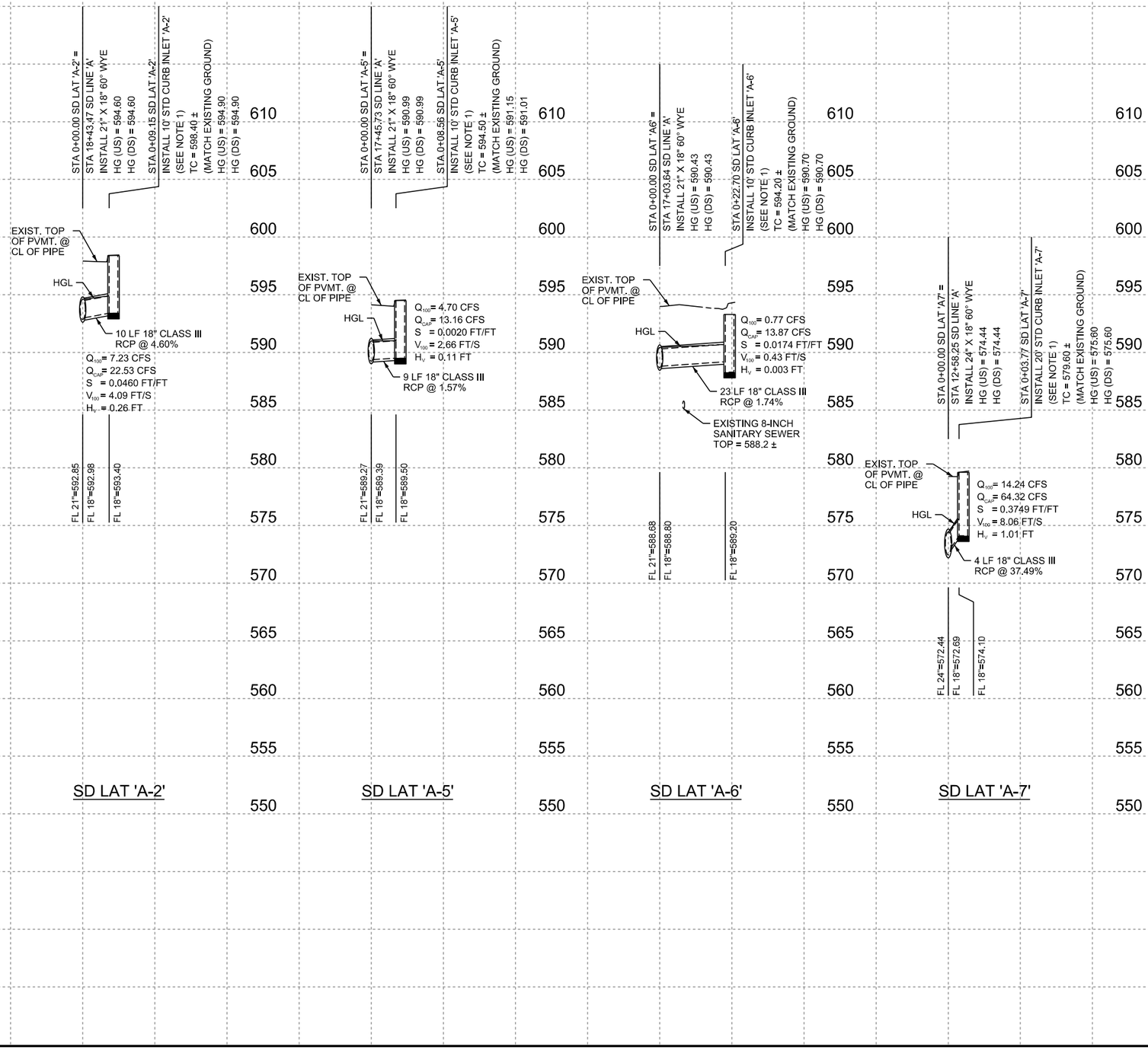
ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

DRAINAGE PLAN & PROFILE
BEGIN TO STA. 13+50
OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	DRN-03	14

DATE: 11/18/2020
TIME: 12:09:59 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_DRN_03.dgn



0 10 20 30 40
HORIZONTAL SCALE IN FEET

0 5 10
VERTICAL SCALE IN FEET

NOTES

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JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

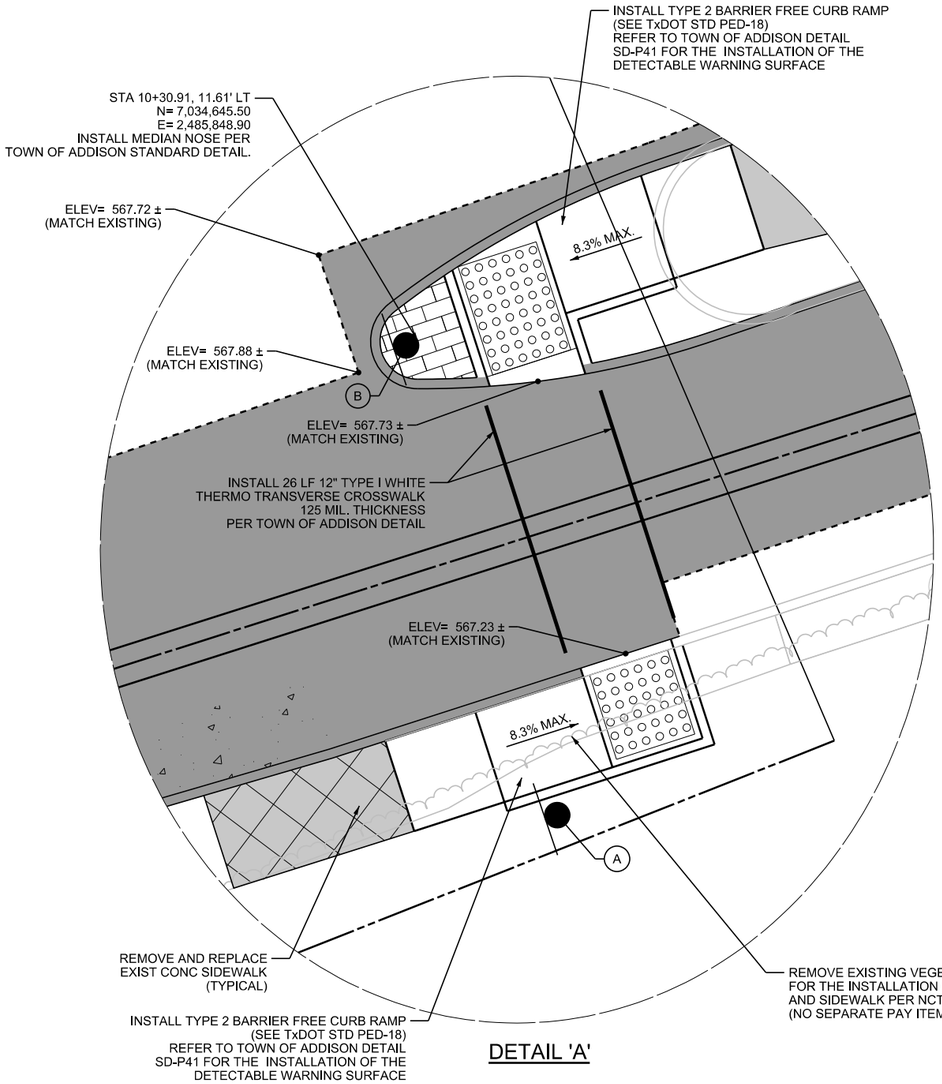
DRAINAGE LATERAL PROFILES

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS
TOWN OF ADDISON, TEXAS

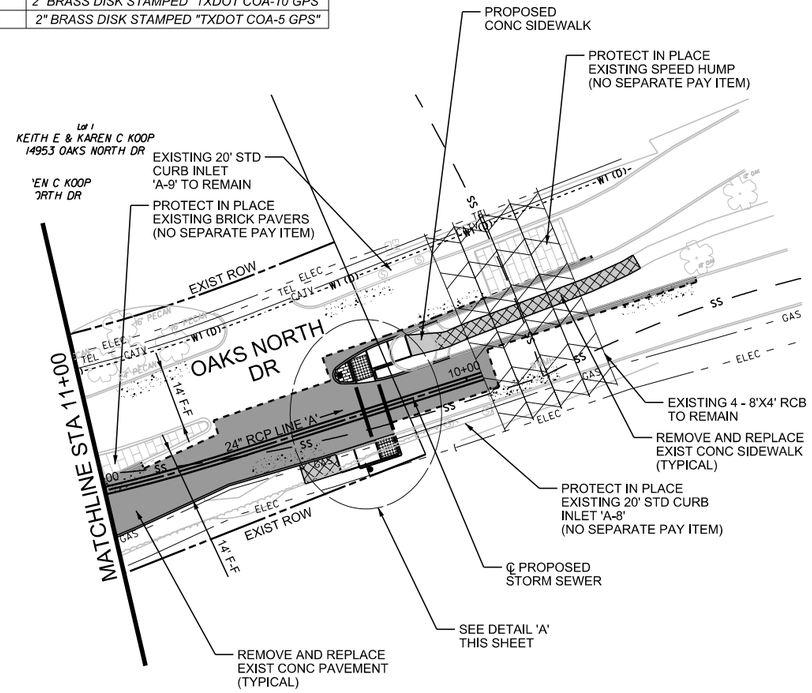
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	DRN-04	15

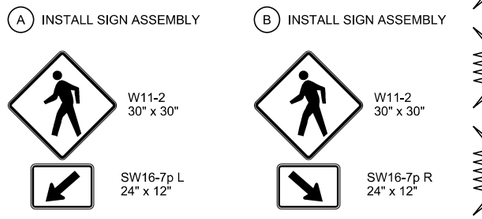
DATE: 11/18/2020
TIME: 2:29:21 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_DRN_04.dgn

BENCHMARKS & CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
COA-10	7,033,108.643	2,486,403.339	593.89	2" BRASS DISK STAMPED "TXDOT COA-10 GPS"
COA-5	7,036,216.214	2,482,155.872	630.10	2" BRASS DISK STAMPED "TXDOT COA-5 GPS"



DETAIL 'A'





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JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

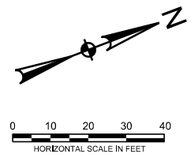
CAUTION!!!
EXISTING UNDERGROUND
NATURAL GAS LINE

CAUTION!!!
EXISTING WATER LINE

CAUTION!!!
EXISTING SANITARY SEWER
LINE

CAUTION!!!
EXISTING UNDERGROUND
COMMUNICATION LINE

CAUTION!!!
EXISTING UNDERGROUND
ELECTRIC LINE



LEGEND

- REMOVE AND REPLACE REINFORCED CONCRETE PAVEMENT (HIGH EARLY STRENGTH)
- REMOVE AND REPLACE REINFORCED CONCRETE SIDEWALK (EXPOSED AGGREGATE)
- SAWCUT LINE (NO SEPARATE PAY ITEM)
- PROPOSED SIGN

NOTES:

1. ALL DIMENSIONS AND STATION/OFFSETS ARE BASED ON THE CENTERLINE FOR THE PROPOSED STORM DRAIN TRUNK LINE.
2. UNLESS NOTED, UTILITY CROSSING LOCATIONS BASED ON ASSUMED DEPTHS AND SHALL BE UNCOVERED AND VERIFIED BY CONTRACTOR PRIOR TO START OF CONSTRUCTION.
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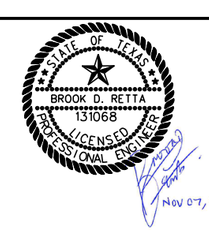


REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

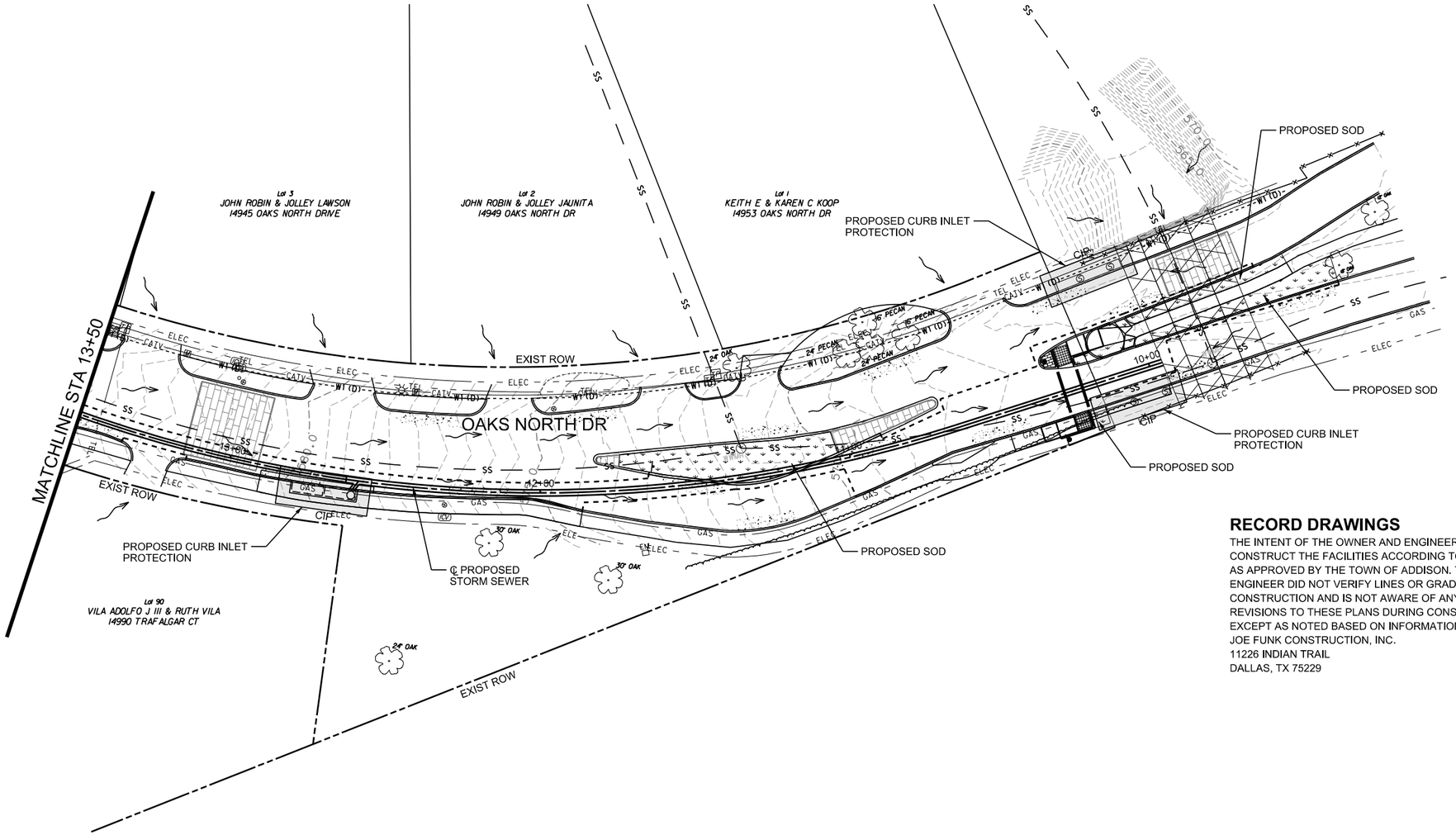
CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

PAVING PLAN

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	PAVE-01	16

DATE: 11/18/2020
TIME: 2:09:27 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_PAVE_01.dgn



0 10 20 30 40
HORIZONTAL SCALE IN FEET

LEGEND:

- CIP — CURB INLET PROTECTION
- PROPOSED SOD
- SURFACE FLOW DIRECTION
- XXXX — EXISTING CONTOURS

NOTES:

1. SEE SW3P SHEET FOR MORE INFORMATION AND NOTES.
2. COORDINATE SW3P BMP INSTALLATION SEQUENCE WITH OVERALL PHASING PLAN; SEE OVERALL PHASING PLAN SHEET FOR ADDITIONAL INFORMATION.
3. CONTRACTOR SHALL ADJUST LOCATION OF CONSTRUCTION ENTRANCES DEPENDING ON CONSTRUCTION SEQUENCE PHASING TO PROVIDE EXIT FROM ANY ACTIVE DISTURBED AREA.

RECORD DRAWINGS

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EROSION CONTROL CONSTRUCTION PLAN

BMP	INSTALLATION	DATE	REMOVAL	DATE
INLET PROTECTION	PRIOR TO CONSTRUCTION		AFTER FINAL STABILIZATION OF SITE	
INLET PROTECTION	AFTER INSTALLATION / PRIOR TO PAVING		AFTER FINAL STABILIZATION OF SITE	
SOD/STABILIZED EMBANKMENTS	PRIOR TO CONSTRUCTION		AFTER FINAL STABILIZATION OF SITE	

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED
PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

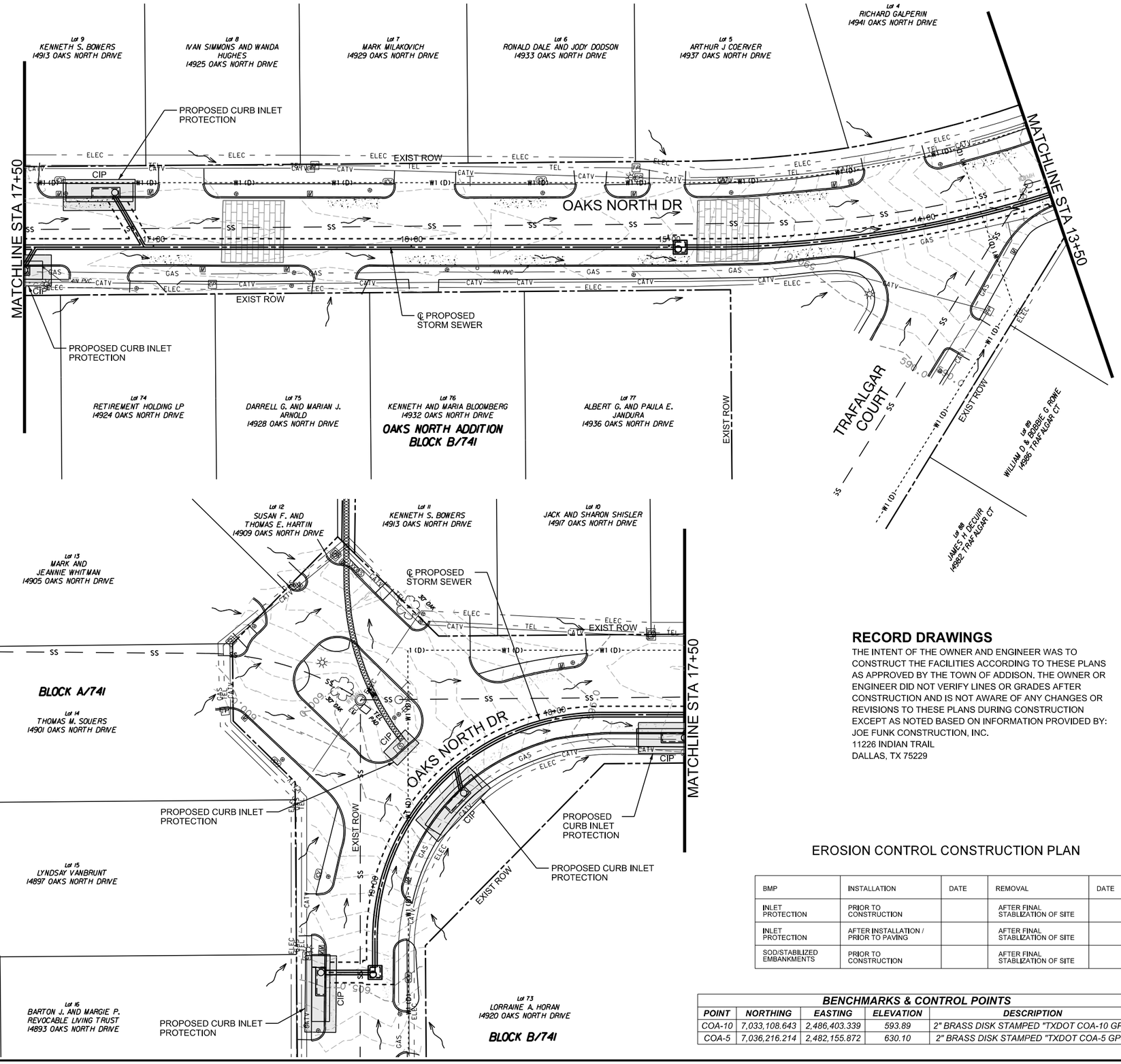
EROSION CONTROL PLAN
BEGIN TO STA. 13+50

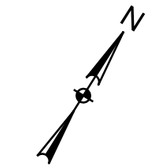
OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	EC-01	17

DATE: 11/18/2020
TIME: 2:09:56 PM
FILE NAME: N:\PROJECTR\14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_EC_01.dgn





LEGEND:

CIP	CURB INLET PROTECTION
	PROPOSED SOD
	SURFACE FLOW DIRECTION
XXXX	EXISTING CONTOURS

NOTES:

1. SEE SW3P SHEET FOR MORE INFORMATION AND NOTES.
2. COORDINATE SW3P BMP INSTALLATION SEQUENCE WITH OVERALL PHASING PLAN; SEE OVERALL PHASING PLAN SHEET FOR ADDITIONAL INFORMATION.
3. CONTRACTOR SHALL ADJUST LOCATION OF CONSTRUCTION ENTRANCES DEPENDING ON CONSTRUCTION SEQUENCE PHASING TO PROVIDE EXIT FROM ANY ACTIVE DISTURBED AREA.

RECORD DRAWINGS

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JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

EROSION CONTROL CONSTRUCTION PLAN

BMP	INSTALLATION	DATE	REMOVAL	DATE
INLET PROTECTION	PRIOR TO CONSTRUCTION		AFTER FINAL STABLIZATION OF SITE	
INLET PROTECTION	AFTER INSTALLATION / PRIOR TO PAVING		AFTER FINAL STABLIZATION OF SITE	
SOD/STABILIZED EMBANKMENTS	PRIOR TO CONSTRUCTION		AFTER FINAL STABLIZATION OF SITE	

BENCHMARKS & CONTROL POINTS

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
COA-10	7,033,108.643	2,486,403.339	593.89	2" BRASS DISK STAMPED "TXDOT COA-10 GPS"
COA-5	7,036,216.214	2,482,155.872	630.10	2" BRASS DISK STAMPED "TXDOT COA-5 GPS"

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED
PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

EROSION CONTROL PLAN STA. 13+50 TO END

OAKS NORTH DRIVE DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	EC-02	18

DATE: 11/18/2020
TIME: 12:09:46 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_EC_02.dgn

A. GENERAL SITE DATA

1. PROJECT LIMITS:

Begin Project Coordinates : *Latitude (N) :* 32.95°N *Longitude (W) :* - 96.81°W

2. PROJECT SITE MAPS:

- *Project Location Map: The Title Sheet*
- *Drainage Patterns: Drainage Area Map (Sheet 9)*
- *Slopes Anticipated After Major Gradings or Areas of Soil Disturbance: Typical Section (N/A)*
- *Location of Erosion and Sediment Controls: SW3P Site Maps (Sheets 17-18)*
- *Surface Waters and Discharge Locations: Drainage (Sheets 12-14)*
- *Project Specific Location(s) (PSL): To be determined by the project Construction Personnel. Location(s) shown on SW3P Site Map (If PSL location(s) is within one mile of project) and information located in project SW3P Binder (Reference Item #10 below).*

3. PROJECT DESCRIPTION:

Construction of proposed storm drain system along Oaks North Drive.

4. MAJOR SOIL DISTURBING ACTIVITIES:

Demo of Existing Pavement.
Site Preparation.
Utility Construction.
Trench Repair.

5. EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER:

Existing soil is clay loam, very gravelly clay loam and bedrock.

6. TOTAL PROJECT AREA: *1.1* Acres

7. TOTAL AREA TO BE DISTURBED: *0.2* Acres *(18 %)*

8. WEIGHTED RUNOFF COEFFICIENT

BEFORE CONSTRUCTION: *0.60*
AFTER CONSTRUCTION: *0.60*

9. NAME OF RECEIVING WATERS:

White Rock Creek Tributary 1

10. PROJECT SW3P Binder:

A. *For projects disturbing one to five acres, Contractor will maintain a SW3P Binder at the project site which contains the following: Index Sheet, TCEQ Signature Authority, TCEQ Small Construction, Site Notice, Contractor Certification of Compliance, SW3P Inspector Qualification Statements, Inspection and Maintenance Reports (Form 2118), EPIC Sheet, SW3P Sheet, Site Location Maps, Stored Material Lists specifying associated control measures and the Appendix which contains the TPDES Construction General Permit, MS4 Operator Notification(s) and the Construction PSL Permits per all applicable requirements.*

B. *For projects disturbing 5 acres or more, TxDOT will follow the actions listed in (10.A.) above with the addition of the following: Notice Of Intent (N.O.I.) and Fee Payment Form, TCEQ Large Construction Site Notice (to be used instead of Small Site Notice), and TPDES Permit Coverage Notice.*

C. *For projects disturbing less than one acre, actions described in (10.A.) and (10.B.) above are not required. Acreage is calculated by adding Total Area To Be Disturbed Acres on project (See #7 above) and the PSL(s) acreage located within one mile of project.*

B. EROSION AND SEDIMENT CONTROLS

1. SOIL STABILIZATION PRACTICES: (Select T = Temporary or P = Permanent, as applicable)

___ TEMPORARY SEEDING
___ MULCHING (Hay or Straw)
___ BUFFER ZONES
___ PLANTING
___ SEEDING
P SODDING
___ PRESERVATION OF NATURAL RESOURCES
___ FLEXIBLE CHANNEL LINER
___ RIGID CHANNEL LINER
___ SOIL RETENTION BLANKET
___ COMPOST MANUFACTURED TOPSOIL
___ VERTICAL TRACKING
___ OTHER:

2. STRUCTURAL PRACTICES: (Select T = Temporary or P = Permanent, as applicable)

___ SILT FENCES
T EROSION CONTROL LOGS
___ EROSION CONTROL COMPOST BERMS (Low Velocity)
___ ROCK FILTER DAMS
___ DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
___ DIVERSION, INTERCEPTOR, OR PERIMETER SWALES
___ DIVERSION DIKE AND SWALE COMBINATIONS
___ PIPE SLOPE DRAINS
___ PAVED FLUMES
T ROCK BEDDING AT CONSTRUCTION EXIT
___ TIMBER MATTING AT CONSTRUCTION EXIT
___ CHANNEL LINERS
___ SEDIMENT TRAPS
___ SEDIMENT BASINS
T STORM INLET SEDIMENT TRAP
___ STONE OUTLET STRUCTURES
P CURBS AND GUTTERS
P STORM SEWERS
___ VELOCITY CONTROL DEVICES
___ OTHER:

NOTE: TOP OF BMP'S SHOULD NOT BE HIGHER THAN ROADWAY ELEVATION AS NOT TO FLOOD ROADWAY UNLESS PRIOR APPROVAL FROM ENGINEER IS OBTAINED.

3. STORM WATER MANAGEMENT:

A. *Storm water drainage will be provided by, inlets, and storm water systems which carry drainage within the R.O.W. to the lows within the roadway and project site which drains to natural facilities.*

4. STORM WATER MANAGEMENT ACTIVITIES: (Sequence of Construction)

Phase I Construction:
Install temporary erosion control logs on existing curb inlets and along ROW downstream of project site. Following demolition of inlet tops install TECL around inlet bottoms.

Phase II Construction:
Install TECL around constructed inlet bottoms.

Phase III Construction:
Install block sod/seeding over disturbed non-pavement surfaces. Upon establishment of ground cover vegetation, remove TECLs from inlets and ROW.

5. NON-STORM WATER DISCHARGES:

Filter non-storm water discharges, or hold in retention basins, before being allowed to mix with storm water. These discharges consist of, but not limited to, non-polluted ground water, spring water, foundation or footing drain water, water used for dust control or pavement washing and vehicle washwater containing no detergents.

C. OTHER REQUIREMENTS & PRACTICES

1. MAINTENANCE:

Maintain all erosion and sediment controls in good working order. Perform any necessary cleaning/repairs/replacements at the earliest possible date prior to next rain event, but no later than 7 calendar days. Ensure the surrounding ground has dried sufficiently to prevent damage from equipment. "Too Wet" is the only reason for not adhering to timeframes described. When construction activities permanently or temporarily cease and are not expected to resume for 14 or more days on a disturbed portion of the site, stabilization measures must be initiated immediately.

2. INSPECTION:

A Town of Flower Mound (TOFM) Inspector will perform a regularly scheduled SW3P inspection every 7 calendar days. An Inspection and Maintenance Report, signed by the TOFM Inspector and the Contractor, will be filed for each inspection. Revise/clean/repair/replace each BMP control device in accordance with the current TxDOT Standard Field Inspection and Maintenance Report (Form 2118) and Item I (Maintenance) above.

3. WASTE MATERIALS:

On a daily basis, or as may be directed, collect all waste materials, trash and debris from the construction site and deposit into a metal dumpster having a secure cover and which meets all state and local city solid waste management requirements. Empty the dumpster as required by regulation, or as may be directed, at a local approved landfill site. Do not bury construction waste on the construction project site.

4. HAZARDOUS WASTE & SPILL REPORTING:

As a minimum, any products in the following categories are considered to be hazardous: Paints, Acids, Solvents, Fuels, Asphalt Products, Chemical Additives for Soil Stabilization, and Concrete Curing Compounds or Additives. When storing hazardous material on the project site, or at a Project Specific Location, take all practicable precaution to prevent and/or contain any spillage of these materials. In the event of a spill, contact the spill coordinator immediately.

5. SANITARY WASTE:

Use a licensed sanitary waste management contractor to collect all sanitary waste from portable units as may be required by local regulation, or as directed.

6. CONSTRUCTION VEHICLE TRACKING:

On a regular basis, or as may be directed, dampen the work site for dust control and stabilize construction entrances/exits. Provide for a motorized broom or vacuum type sweeper to be available on a daily basis, or as may be directed, to remove sediment from paved roadways abutting or traversing the project site.

7. MANAGEMENT PRACTICES:

A. *Construct disposal areas, stockpiles,haul roads and PSL's in a manner that will minimize and control the amount of sediment that may enter receiving waters. Do not locate disposal areas in any wetland, waterbody or streambed.*
B. *Locate construction staging areas, vehicle maintenance and PSL's areas in a manner to minimize the runoff of pollutants.*
C. *When working in or near a wetland, install and maintain operating soil erosion and sediment controls at all times during construction and isolate the work from the wetland.*
D. *Clear all waterways as soon as practicable of temporary embankment, temporary bridges, matting, falsework, piling, debris or other obstructions placed during construction operations that are not a part of the finished work.*
E. *Procedures and/or practices should be taken to control dust.*
F. *Sediment to be removed from roadways daily or when work begins after weather events if construction activities have ceased due to weather event.*

RECORD DRAWINGS

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JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED
PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

STORMWATER POLLUTION PREVENTION PLAN
OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS
TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	SW3P	19

DATE: 11/18/2020
TIME: 1:39:47 PM
FILE NAME: N:\PROJECTR\14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_SW3P_NOTES.dgn

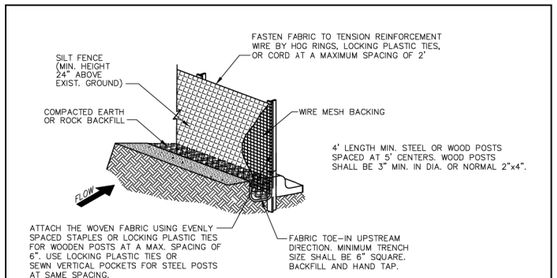
EROSION CONTROL PLAN NOTES

1. ALL OPERATORS AND/OR CONTRACTORS SHALL CONFORM TO THE TERMS AND CONDITIONS OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ), TPDES GENERAL PERMIT NO. TXR 150000 ISSUED AND DATED MARCH 5, 2003.
2. THE NOTICE OF INTENT (NOI), AS REQUIRED BY THE GENERAL PERMIT, MUST BE PROPERLY DISPLAYED ON SITE AT ALL TIMES BY EACH OPERATOR.
3. ALL RELEASES OF THE REPORTABLE QUANTITIES OF HAZARDOUS SUBSTANCES SHALL BE REPORTED IMMEDIATELY TO THE FACILITY OPERATOR, EPA AND TCEQ.
4. QUALIFIED OPERATOR PERSONNEL MUST INSPECT THE SITE AT LEAST ONCE EVERY 14 DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER. AS AN ALTERNATIVE, AN INSPECTION CAN BE CONDUCTED ONCE EVERY SEVEN (7) CALENDAR DAYS ON A DEFINED DAY. A DECISION ON WHICH METHOD TO USE MUST BE DECIDED BEFORE WORK BEGINS AND MUST BE FOLLOWED THROUGHOUT THE PROJECT.
5. MODIFICATIONS TO THE STORM WATER POLLUTION PREVENTION PLAN SHALL BE IMPLEMENTED AND BE IN-PLACE WITHIN A SEVEN CALENDAR DAY PERIOD.
6. IF ANY CONTRACTOR SEES A VIOLATION BY AN OPERATOR OR ANOTHER CONTRACTOR, THAT OPERATOR OR CONTRACTOR IN VIOLATION SHALL BE NOTIFIED AS WELL AS THE FACILITY OPERATOR.
7. EROSION CONTROL SHALL BE INSTALLED PRIOR TO GRADING.
8. ACCUMULATED SILT DEPOSITS SHALL BE REMOVED FROM SILT FENCES AND HAY BALE DIKES WHEN SILT DEPTH REACHES THREE INCHES OR 25%.
9. THE CONTRACTOR SHALL ADD OR DELETE EROSION PROTECTION AT THE REQUEST AND DIRECTION OF THE OPERATOR OR TOWN.
10. AFTER INSTALLATION OF PAVEMENT, FINAL LOT BENCHING AND GENERAL CLEANUP, THE CONTRACTOR SHALL ESTABLISH GRASS GROUNDCOVER IN ALL STREET PARKWAYS, LOT AND ALL OTHER DISTURBED AREAS. SODDING SHALL BE DONE AS SPECIFIED BY SECTION 202.5 AND SEEDING AS SPECIFIED BY SECTION 202.6 OF THE OCTOBER 2004 OR LATEST EDITION OF NCTCOG STANDARD SPECIFICATION.
11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTROL AND LIMIT SILT AND SEDIMENT LEAVING THE SITE. SPECIFICALLY, THE CONTRACTOR SHALL PROTECT ALL PUBLIC STREETS, ALLEYS, STREAMS AND STORM DRAINAGE SYSTEMS FROM EROSION DEPOSITS.
12. A DRAINAGE AREA MAP WILL BE INCLUDED WITH THE EROSION CONTROL PLAN.
13. CONSTRUCTION WASTE DISPOSAL CONTAINERS SHALL BE PROVIDED ON THE SITE FOR DISPOSAL OF ALL NON-HAZARDOUS CONSTRUCTION WASTE MATERIALS. THE CONTAINERS SHALL BE HAULED TO LANDFILL BY THE CONTRACTOR.
14. ALL HAZARDOUS MATERIALS SHALL BE HANDLED AND DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

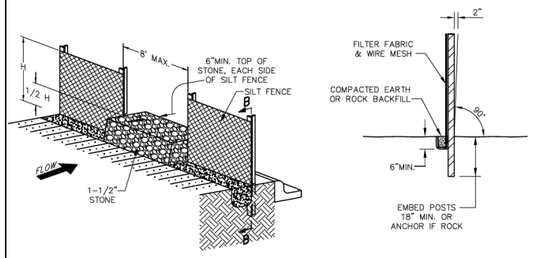
SILT FENCE NOTES

1. POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. THE POST MUST BE EMBEDDED A MINIMUM OF 18 INCHES.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON THE UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHALL BE SECURELY FASTENED TO EACH SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE SUPPORT POSTS. THERE SHALL BE A 6 INCH DOUBLE OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY TWO WEEKS OR AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 3 INCHES. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

PUBLIC WORKS DEPARTMENT | EROSION CONTROL & SILT FENCE NOTES | STANDARD CONSTRUCTION DETAILS EROSION CONTROL | DATE: AUGUST, 2010 | REV DATE: – | SHEET : SD-EC01

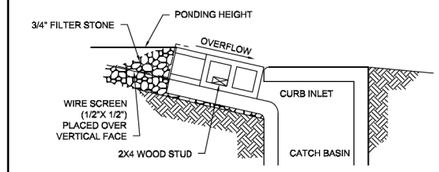


ISOMETRIC PLAN VIEW
N.T.S.



SILT FENCE
STONE OVERFLOW STRUCTURE
N.T.S.

PUBLIC WORKS DEPARTMENT | SILT FENCE DETAIL | STANDARD CONSTRUCTION DETAILS EROSION CONTROL | DATE: AUGUST, 2010 | REV DATE: – | SHEET : SD-EC02



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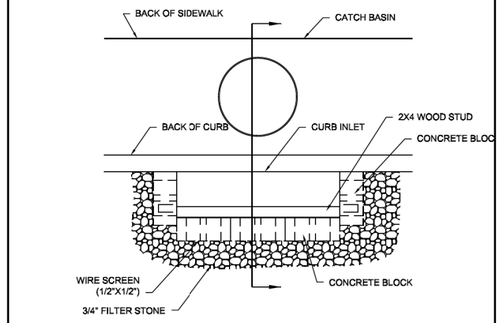
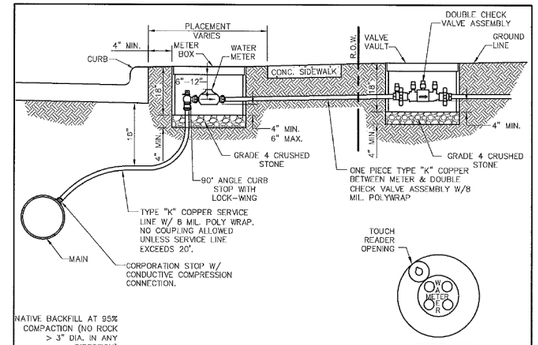


PLAN VIEW

INLET PROTECTION–CURB | North Central Texas Council of Governments | STANDARD SPECIFICATION REFERENCE 2021 * | DATE OCT. '04 | STANDARD DRAWING NO. 1140

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*

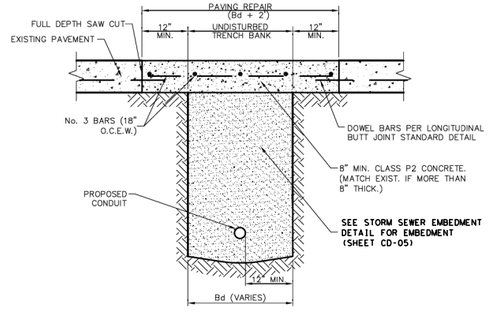


GENERAL INSTALLATION NOTES:

1. WATER METER SHALL BE PLACED IN CENTER OF LOT WITH THE SANITARY SEWER SERVICE TO BE LOCATED 10' DOWNSTREAM.
2. METER AND BOX SHALL BE SET BY THE CONTRACTOR TO ADDISON STANDARDS IN ALL CASES.
3. THE METER BOX SHALL BE SET WITHIN THE R.O.W. OR A DEDICATED UTILITY EASEMENT. IN ALL CASES, THE METER BOX SHALL BE PROTECTED FROM VEHICULAR TRAFFIC.
4. WATER SERVICES SHALL NOT BE CONNECTED TO DEAD END LINES OR FIRE HYDRANT LEADS.
5. ALL MATERIALS SHALL CONFORM TO THE TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.

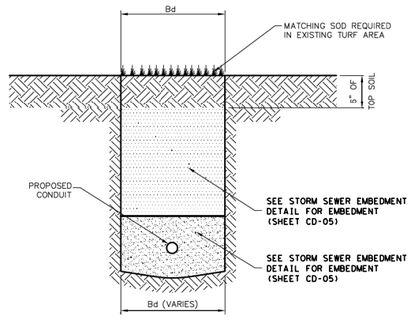
Type "K" Copper Service Pipe.	Double Strap Bronze Service Saddle with C.C. Threads	East Jordan Iron Works Galvanized Meter Box With Iron Ring & Cover				
		Min. Dia.	Covers & Rigns	Min. Ht.	Min. Can Weight	Min. Total Weight
3/4 Inch	3/4 Inch	18 Inches	12⅝ Inches	18 Inches	13 lbs.	42 lbs.
1 Inch	1 Inch	24 Inches	20⅛ Inches	18 Inches	17 lbs.	98 lbs.
1 1/2 Inch	1 1/2 Inch	28 Inches	20⅛ Inches	18 Inches	20 lbs.	127 lbs.
2 Inch	2 Inch	28 Inches	20⅛ Inches	18 Inches	20 lbs.	127 lbs.

PUBLIC WORKS DEPARTMENT | SERVICE CONNECTION WITH METER BOX | STANDARD CONSTRUCTION DETAILS WATER | DATE: AUGUST, 2010 | REV DATE: – | SHEET : SD-W20



NOTES:
1. REPAIRS SHALL EXTEND TO 1' BEYOND EACH SIDE OF TRENCH (Bd).
2. REINFORCEMENT CHAIRS OR APPROVED DEVICE SHALL BE USED.
3. REPAIRS SHALL MATCH EXISTING GRADE.

PUBLIC WORKS DEPARTMENT | UTILITY INSTALLATION BENEATH CONCRETE ROAD SURFACE | STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION | DATE: AUGUST, 2010 | REV DATE: – | SHEET : SD-U01



RECORD DRAWINGS
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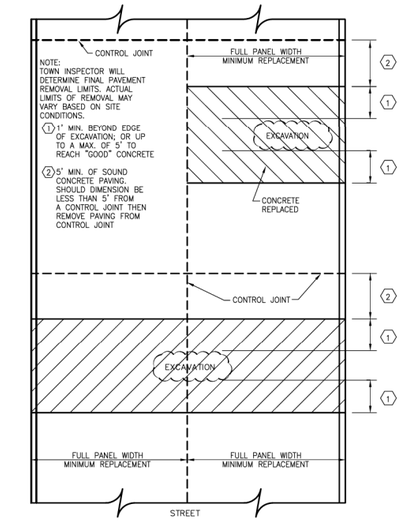
JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

NOTES:
1. ALL DISTURBED AREAS SHALL BE SODDED (UNLESS OTHERWISE APPROVED).
2. BACKFILL AND EMBEDMENT PARTICLE SIZE SHALL NOT EXCEED 3" ANY DIRECTION.

UTILITY INSTALLATION WITHIN TURF AREAS
NTS

PUBLIC WORKS DEPARTMENT | UTILITY INSTALLATION WITHIN TURF AREAS | STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION | DATE: AUGUST, 2010 | REV DATE: – | SHEET : SD-U04



TYPICAL CONCRETE STREET REMOVAL/REPLACEMENT
EXAMPLE 1

PUBLIC WORKS DEPARTMENT | STREET CUT REPAIRS EXAMPLE 1 | STANDARD CONSTRUCTION DETAILS UTILITIES TRENCHLINE & STREET RESTORATION | DATE: AUGUST, 2010 | REV DATE: – | SHEET : SD-U05

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED
PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

CONSTRUCTION DETAILS
SHEET 1 OF 6
OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS
TOWN OF ADDISON, TEXAS

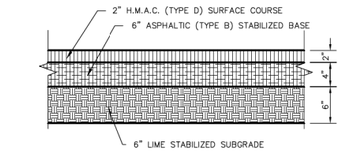
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	DETAILS	CD-01

DATE: 11/18/2020
TIME: 12:09:58 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_Details.dgn

PAVING – GENERAL NOTES

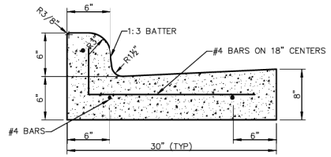
1. GENERAL:
   PAVEMENT THICKNESS IS AS SHOWN IN ITEM 7. SUBGRADE DESIGN SHALL CONFORM TO TOWN OF ADDISON PUBLIC WORKS REQUIREMENTS IN ITEM 3, AND SHALL EXTEND 12" MIN. BEHIND THE BACK OF CURB.
2. REINFORCED CONCRETE PAVEMENT:
   A. CONCRETE STRENGTH SHALL BE AS SHOWN IN ITEM 7 (NCTCOG LATEST EDITION).
   B. ALL CURBS SHALL BE INTEGRAL WITH PAVEMENT AND SHALL BE OF THE SAME STRENGTH AS CONCRETE PAVEMENT.
   C. DETAIL AND ARRANGEMENT OF PAVEMENT JOINTS, ALL TYPES, SHALL BE AS SHOWN ON THE TOWN STANDARD CONSTRUCTION DETAILS.
   D. BAR LAPS SHALL BE THIRTY DIAMETERS.
   E. REINFORCING STEEL SHALL BE #3 REBAR (3/8") ON 18" CENTERS FOR 8" OR LESS. #4 FOR 10" OR ABOVE
3. SUBGRADE:
   SUBGRADE UNDER ALL PAVEMENT SHALL BE 6" THICK AND SHALL BE STABILIZED WITH AT LEAST 30 LBS. PER SQ. YD. HYDRATED LIME, COMPACTED TO A DENSITY NOT LESS THAN 95 PERCENT. LABORATORY TESTS MUST BE SUBMITTED TO THE PUBLIC WORKS DEPARTMENT FOR APPROVAL TO DETERMINE AMOUNT OF LIME REQUIRED. LABORATORY TEST MAY BE WAIVED PROVIDED AT LEAST 36 LBS. OF LIME PER SQ. YD. IS USED. SEE NCTCOG ITEM 301.2 "LIME TREATMENT". FLEXIBLE BASE (CRUSHED STONE/CONCRETE) PER NCTCOG ITEM 301.5 MAY BE SUBSTITUTED FOR LIME TREATMENT WITH THE APPROVAL OF THE TOWN ENGINEER.
4. REBAR SHALL BE SUPPORTED BY BAR CHAIRS OR OTHER DEVICES APPROVED BY TOWN ENGINEER.
5. NO TRAFFIC ON FINISHED SUBGRADE SHALL BE PERMITTED AFTER REINFORCING STEEL IS INSTALLED ABOVE SUBGRAGE. NO TRAFFIC SHALL BE PERMITTED BEFORE OR DURING THE PLACING OF CONCRETE.
6. CROSS SLOPE OF STRAIGHT CROWN STREETS SHALL BE 1/4" PER FOOT UNLESS APPROVED BY THE TOWN ENGINEER.
7. PAVEMENT THICKNESS AND STRENGTHS SHALL BE AS FOLLOWS:
   MAJOR ARTERIAL – 10" CLASS "P1" OR "P2."
   MINOR ARTERIAL – 8" CLASS "P1" OR "P2."
   COMMERCIAL/INDUSTRIAL COLLECTOR – 8" CLASS "P1" OR "P2."
   RESIDENTIAL COLLECTOR – 8" CLASS "P1" OR "P2."
   RESIDENTIAL LOCAL – 8" CLASS "P1" OR "P2."
   SIDEWALK AND BFR's–4"–CLASS "A"
   DRIVE APPROACH–8"–CLASS "P2"
   ALLEY–6" CLASS "P1" OR "P2."
8. CONCRETE MIX DESIGN SHALL BE AS DEFINED BY NCTCOG 303.3.
9. ALL MEDIANS AND PARKWAYS SHALL BE PROVIDED WITH BERMUDA GROUND COVER.
10. ONCE A CURB ABUTTING A THOROUGHFARE HAS BEEN SAWCUT AND REMOVED, THE CONTRACTOR MUST REPLACE THE CONCRETE WITH A NEW POUR (i.e. DRIVEWAY) WITHIN 14 CALENDAR DAYS. LIQUIDATED DAMAGES WILL BE ASSESSED AT $500 PER DAY FOR EACH CALENDAR DAY IN EXCESS OF 14 CALENDAR DAYS. PAYMENT SHALL BE MADE PRIOR TO ACCEPTANCE OR ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
11. ALL SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 5% AND A MAXIMUM CROSS SLOPE OF 2%
12. ALLEYS AND DRIVEWAYS
    A. CONCRETE FOR ALLEY RETURNS AND DRIVEWAYS SHALL HAVE A MINIMUM COPRESSIVE STRENGTH AT 28 DAYS IDENTICAL TO THAT SPECIFIED FOR THE STREET PAVEMENT OR BASE WHEN BUILT AS COMPONENTS OF A CONCRETE PAVING PROJECT. WHEN BUILT SEPARATELY, THE STRENGTH SHALL BE AS SPECIFIED ON THE CONSTRUCTION PLAN.
    B. SPACING AND CONSTRUCTION OF JOINTS SHALL CONFORM TO PARABOLIC STREET PAVEMENT.

PUBLIC WORKS DEPARTMENT	PAVING GENERAL NOTES	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–P01

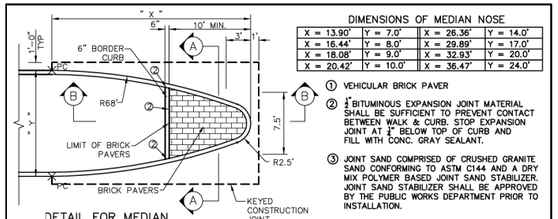


ASPHALT PAVING CROSS SECTION

NOTE:
CUT OF 6" INTO EXISTING PAVEMENT IS REQUIRED FOR CONSTRUCTION JOINT WITH NEW POURS TO GET A SMOOTH FINISH.



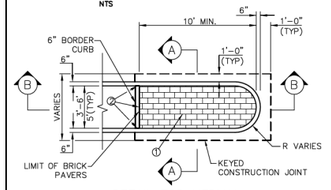
PUBLIC WORKS DEPARTMENT	CURB AND GUTTER & ASPHALT PAVING CROSS SECTION	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–P06



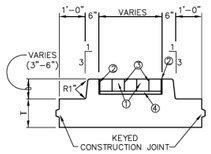
DIMENSIONS OF MEDIAN NOSE

X = 13.90'	Y = 7.0'	X = 26.36'	Y = 14.0'
X = 16.44'	Y = 8.0'	X = 29.89'	Y = 17.0'
X = 18.08'	Y = 9.0'	X = 32.93'	Y = 20.0'
X = 20.42'	Y = 10.0'	X = 36.47'	Y = 24.0'

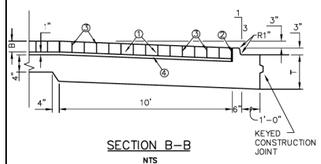
DETAIL FOR MEDIAN WDER THAN 6' (Y>6')
NTS



DETAIL FOR MEDIAN 3'–0" TO 6'–0"
NTS



SECTION A–A
NTS



SECTION B–B
NTS

① VEHICULAR BRICK PAVER

② ½" BITUMINOUS EXPANSION JOINT MATERIAL SHALL BE SUFFICIENT TO PREVENT CONTACT BETWEEN WALK & CURB. STOP EXPANSION JOINT AT 1" BELOW TOP OF CURB AND FILL WITH CONC. GRAY SEALANT.

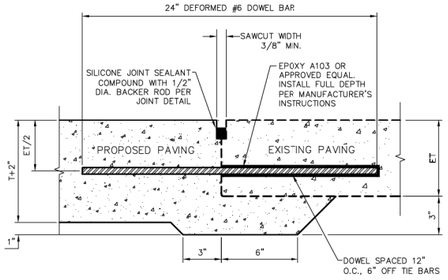
③ JOINT SAND COMPRISED OF CRUSHED GRANITE SAND CONFORMING TO ASTM C144 AND A DRY MIX POLYMER BASED JOINT SAND STABILIZER. JOINT SAND STABILIZER SHALL BE APPROVED BY THE PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION.

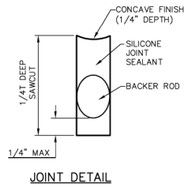
④ BEDDING SAND COMPRISED OF 90% NATURAL OR CRUSHED GRANITE SAND CONFORMING TO ASTM C33 AND 10% PORTLAND CEMENT.

T=PAVEMENT THICKNESS
B=BRICK PAVER THICKNESS

NOTES:
1. BRICK PAVERS SHALL BE VEHICULAR PAVERS CONFORMING TO ASTM C1272, TYPE R APPLICATION AND SHALL BE APPROVED BY PUBLIC WORKS DEPT.
2. BRICK PAVERS SHALL BE WITHOUT FROGS OR CORES IN SURFACE EXPOSED TO VIEW IN THE COMPLETED WORK.
3. MEDIAN PAVERS SHALL EXTEND TO A POINT WHERE MEDIAN IS AT LEAST 6' WIDE. IF MEDIAN IS 6' WIDE, PAVERS SHALL EXTEND 10' FROM THE NOSE.
4. ALL DISTANCES ARE MINIMUM.

PUBLIC WORKS DEPARTMENT	MEDIAN DETAILS	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–P14





JOINT DETAIL
NTS

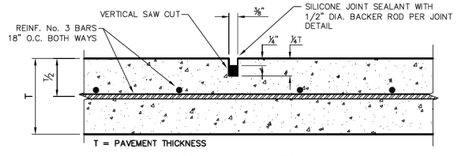
NOTE:
1. NO. 5 DEFORMED DOWEL BAR MAY BE USED IN 6 INCH PAVEMENT.
2. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.
3. DRILLING BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.

T=PROPOSED PAVEMENT THICKNESS
ET=EXISTING PAVEMENT THICKNESS

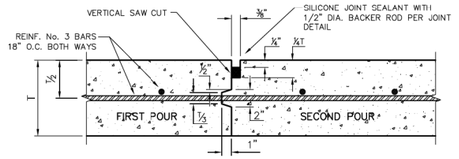
PAVEMENT REPAIR HEADER
NTS

PUBLIC WORKS DEPARTMENT	PAVEMENT REPAIR HEADER	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–P16

JOINT DETAIL
NTS



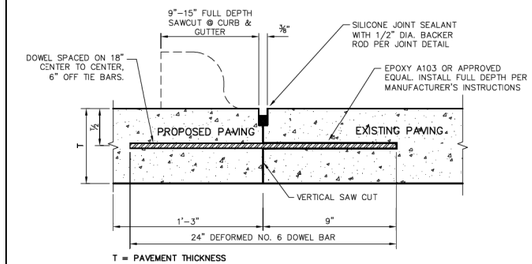
SAWED DUMMY JOINTS
NTS



NOTE: CONTRACTOR SHALL PROTECT KEYWAY PRIOR TO SECOND POUR. IF LONGITUDINAL KEYWAY IS DAMAGED, CONTRACTOR SHALL REPAIR WITH THE USE OF LONGITUDINAL BUTT JOINT. DRILL AND GROUT DOWELS INTO FIRST POUR.

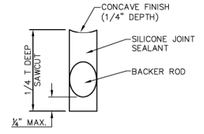
CONSTRUCTION JOINTS FOR PAVEMENT
NTS
TRANSVERSE AND LONGITUDINAL JOINTS

PUBLIC WORKS DEPARTMENT	JOINT DETAILS	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–P18



T = PAVEMENT THICKNESS

NOTES:
1. NO. 5 DEFORMED BAR MAY BE USED IN 6 INCH PAVEMENT.
2. LONGITUDINAL BUTT CONSTRUCTION MAY BE UTILIZED IN PLACE OF LONGITUDINAL HINGED (KEYWAY) JOINT AT CONTRACTORS OPTION.
3. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.
4. DRILLING BY HAND IS NOT ACCEPTABLE, PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.



JOINT DETAIL
NTS

LONGITUDINAL BUTT JOINT
NTS

PUBLIC WORKS DEPARTMENT	LONGITUDINAL BUTT JOINT	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–P19

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED
PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

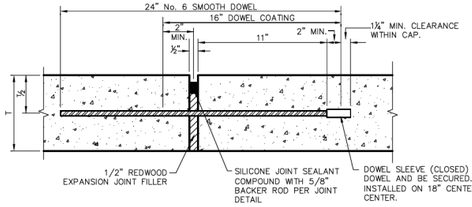
CONSTRUCTION DETAILS
SHEET 2 OF 6

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

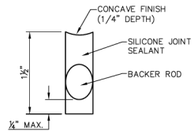
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	DETAILS	CD-02

DATE: 11/18/2020
TIME: 2:27:28 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\14285501_Details.dgn



T=PAVEMENT THICKNESS

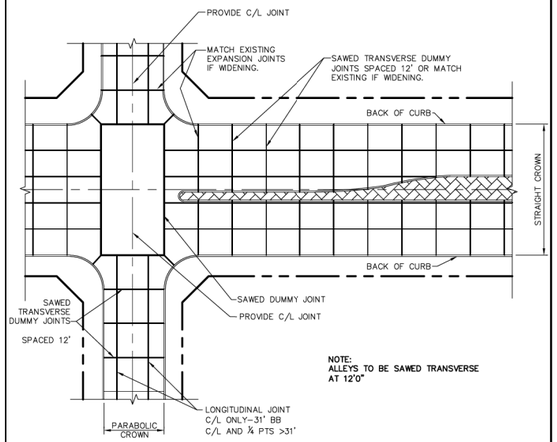
NOTES:
1. DOWELS AND REINFORCING BARS SHALL BE SUPPORTED BY AN APPROVED DEVICE AND MUST BE TIED OR CHAIRED ON EACH SIDE.
2. DOWELS MUST BE PERPENDICULAR TO FACE OF CONCRETE..
3. NO. 5 SMOOTH DOWEL BARS MAY BE USED IN 6" PAVEMENT.
4. TRANSVERSE EXPANSION JOINTS SHALL HAVE A MAXIMUM SPACING OF 600 FT.
5. TRANSVERSE EXPANSION JOINTS SHALL BE LOCATED AT INTERSECTIONS.



JOINT DETAIL
NTS

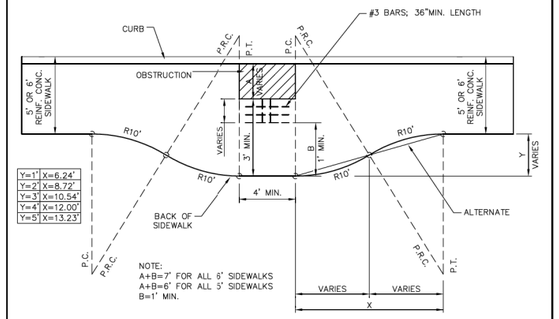
TRANSVERSE EXPANSION JOINT
N.T.S.

Addison! PUBLIC WORKS DEPARTMENT	TRANSVERSE EXPANSION JOINT	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–P20

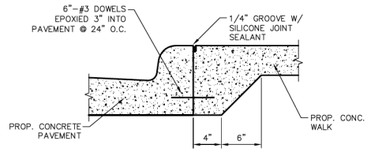


SPACING DIAGRAM FOR TRANSVERSE JOINTS
NTS

Addison! PUBLIC WORKS DEPARTMENT	SPACING DIAGRAM FOR TRANSVERSE JOINTS	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–P22

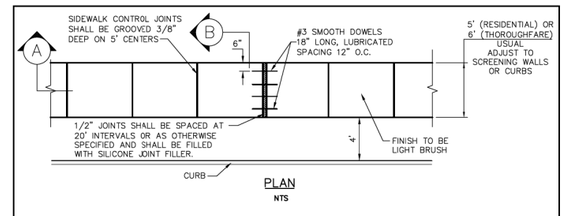


SIDEWALK WIDENING REQUIRED AROUND OBSTACLE IN SIDEWALK
NTS

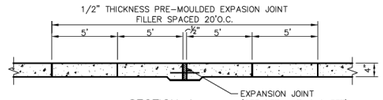


JOINT DETAIL FOR SIDEWALKS ADJACENT TO CURB
NTS

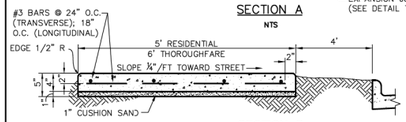
Addison! PUBLIC WORKS DEPARTMENT	SIDEWALK WIDENING REQUIRED AROUND OBSTACLE IN SIDEWALK & JOINT DETAIL FOR SIDEWALKS ADJACENT TO CURB	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–P25



PLAN
NTS

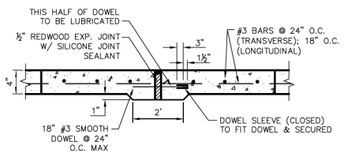


SECTION A
NTS



NOTE:
WHEN CONCRETE WALK IS ADJACENT TO CURB, DEPTH OF EXPANSION JOINT MATERIAL SHALL BE SUFFICIENT TO PREVENT CONCRETE TO CONCRETE CONTACT BETWEEN WALK AND CURB.

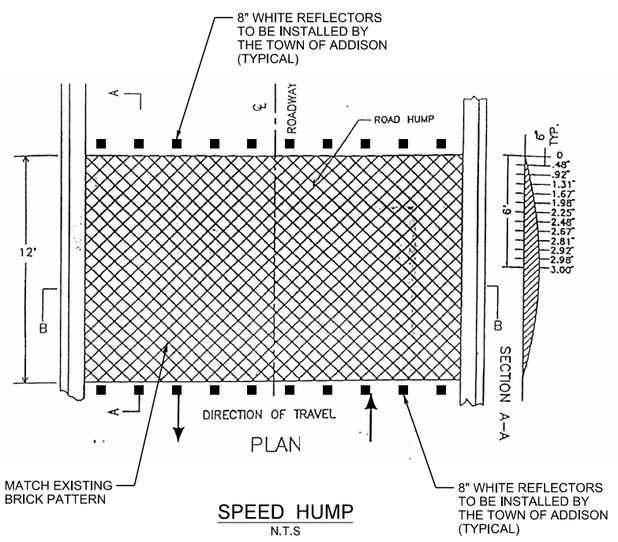
SECTION B
NTS



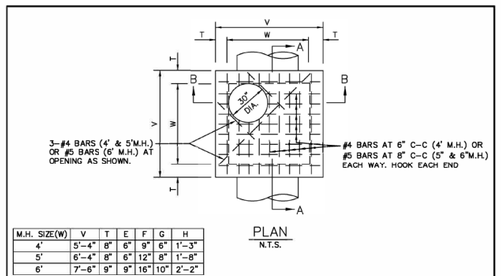
EXPANSION JOINT DETAIL
NTS

Addison! PUBLIC WORKS DEPARTMENT	CONCRETE SIDEWALK	STANDARD CONSTRUCTION DETAILS PAVING		
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD–P26

RECORD DRAWINGS
THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE FACILITIES ACCORDING TO THESE PLANS AS APPROVED BY THE TOWN OF ADDISON. THE OWNER OR ENGINEER DID NOT VERIFY LINES OR GRADES AFTER CONSTRUCTION AND IS NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED BASED ON INFORMATION PROVIDED BY:
JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229



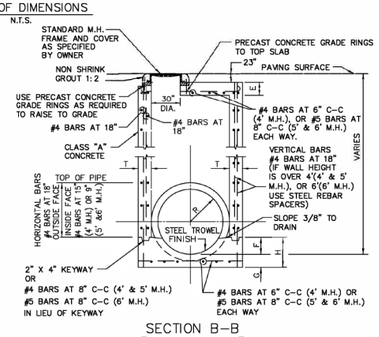
SPEED HUMP
N.T.S



PLAN
N.T.S.

M.H. SIZE(W)	V	T	E	F	G	H
4'	5'–4"	8"	6"	9"	6"	1'–3"
5'	6'–4"	8"	6"	12"	8"	1'–8"
6'	7'–6"	9"	9"	16"	10"	2'–2"

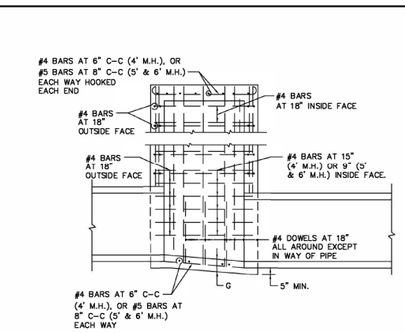
TABLE OF DIMENSIONS
N.T.S.



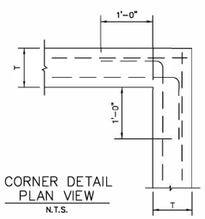
SECTION B–B
N.T.S.

STORM WATER MANHOLE 4', 5', OR 6' SQUARE	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 502.1.4.1*	
		DATE OCT. '04	STANDARD DRAWING NO. 6010A

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*



SECTION A–A
N.T.S.



CORNER DETAIL PLAN VIEW
N.T.S.

NOTES:
1. SLOPE INVERT OF MANHOLE AS INDICATED ON PLAN–PROFILE SHEET.
2. LAYERS OF REINFORCING STEEL NEAREST THE INTERIOR AND EXTERIOR SURFACE SHALL HAVE A COVER OF 2" TO THE CENTER OF BARS, UNLESS OTHERWISE NOTED.
3. CONCRETE SHALL BE CLASS "A".

STORM WATER MANHOLE 4', 5', OR 6' SQUARE	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 502.1.4.1*	
		DATE OCT. '04	STANDARD DRAWING NO. 6010B

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED
PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

CONSTRUCTION DETAILS
SHEET 3 OF 6

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
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DATE: 11/20/2020
TIME: 8:59:44 AM
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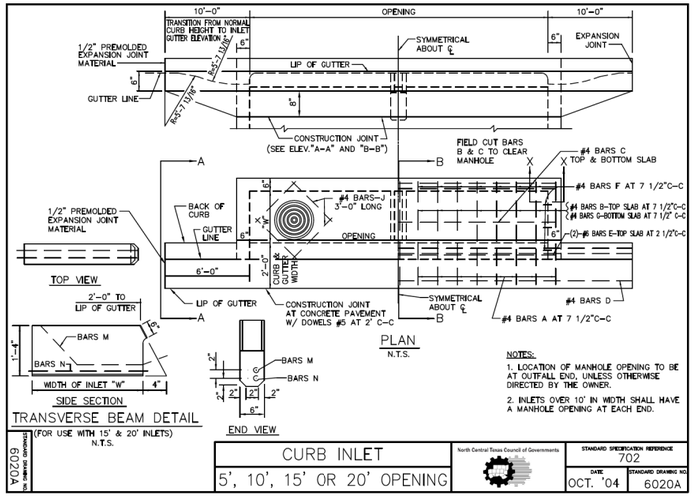


6020A

CURB INLET

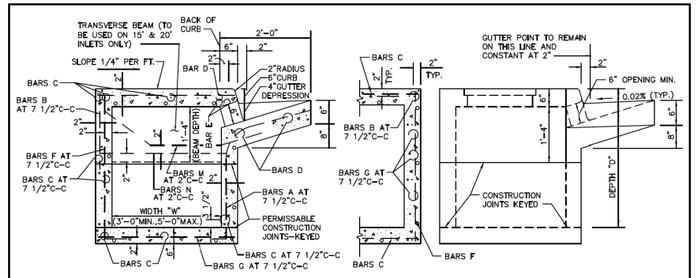
5', 10', 15' OR 20' OPENING

North Central Texas Council of Governments

STANDARD SPECIFICATION REFERENCE 702

DATE OCT. '04

STANDARD DRAWING NO. 6020A



GENERAL NOTES:

1. ALL CONCRETE SHALL BE CLASS "A" CONCRETE.
2. REINFORCING BARS SHALL BE STANDARD GRADE STEEL, DEFORMED REINFORCING BARS OF A DIAMETER AND LENGTH AS SHOWN.
3. CHAMFER ALL EXPOSED CORNERS 3/4" EXCEPT WHERE OTHERWISE NOTED.
4. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
5. FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMODATE STORM SEWER PIPE.
6. RING AND COVER SHALL BE APPROVED BY THE OWNER AND INSTALLED BY THE CONTRACTOR.

6020B

CURB INLET

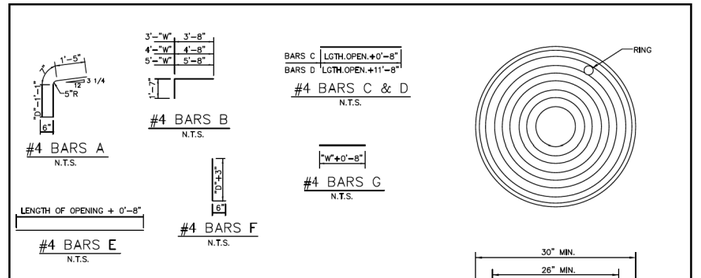
CROSS SECTION & INLET THROAT

North Central Texas Council of Governments

STANDARD SPECIFICATION REFERENCE 702

DATE OCT. '04

STANDARD DRAWING NO. 6020B



6020C

CURB INLET

REBAR & M.H. FRAME & COVER

North Central Texas Council of Governments

STANDARD SPECIFICATION REFERENCE 702

DATE OCT. '04

STANDARD DRAWING NO. 6020C

BILL OF REINFORCING STEEL

DEPTH "D"	ALL WIDTHS AND LENGTHS				OPENING LENGTH "L" = 5ft Widths "W" 3ft	4ft	5ft			OPENING LENGTH "L" = 10ft Widths "W" 3ft	4ft	5ft			OPENING LENGTH "L" = 15 ft Widths "W" 3ft	4ft	5ft			OPENING LENGTH "L" = 20 ft Widths "W" 3ft	4ft	5ft		
	BARS C	BARS D	BARS E	BARS J	BARS F	BARS F	BARS A	BARS B	BARS G	BARS F	BARS F	BARS A	BARS B	BARS G	BARS F	BARS F	BARS A	BARS B	BARS G	BARS M	BARS N	BARS F	BARS F	BARS A	BARS B	BARS G	BARS M	BARS N
3'-6"	17	3	2	4	20	24	28	10	10	20	28	32	36	18	18	28	36	40	44	26	26	36	2	2	44	48	52	34	34	44	2	2
3'-9"	18	"	"	"	"	"	"	"	"	20	"	"	"	"	"	28	"	"	"	"	"	36	"	"	"	"	"	"	"	44	"	"
4'-0"	19	"	"	"	"	"	"	"	"	24	"	"	"	"	"	32	"	"	"	"	"	40	"	"	"	"	"	"	"	48	"	"
4'-3"	19	"	"	"	"	"	"	"	"	24	"	"	"	"	"	32	"	"	"	"	"	40	"	"	"	"	"	"	"	48	"	"
4'-6"	21	"	"	"	"	"	"	"	"	26	"	"	"	"	"	34	"	"	"	"	"	42	"	"	"	"	"	"	"	50	"	"
4'-9"	21	"	"	"	"	"	"	"	"	26	"	"	"	"	"	34	"	"	"	"	"	42	"	"	"	"	"	"	"	50	"	"
5'-0"	21	"	"	"	"	"	"	"	"	26	"	"	"	"	"	34	"	"	"	"	"	42	"	"	"	"	"	"	"	50	"	"
5'-3"	23	"	"	"	"	"	"	"	"	28	"	"	"	"	"	36	"	"	"	"	"	44	"	"	"	"	"	"	"	52	"	"
5'-6"	23	"	"	"	"	"	"	"	"	28	"	"	"	"	"	36	"	"	"	"	"	44	"	"	"	"	"	"	"	52	"	"
5'-9"	25	"	"	"	"	"	"	"	"	30	"	"	"	"	"	38	"	"	"	"	"	46	"	"	"	"	"	"	"	54	"	"
6'-0"	25	"	"	"	"	"	"	"	"	30	"	"	"	"	"	38	"	"	"	"	"	46	"	"	"	"	"	"	"	54	"	"
6'-3"	26	"	"	"	"	"	"	"	"	30	"	"	"	"	"	38	"	"	"	"	"	46	"	"	"	"	"	"	"	54	"	"
6'-6"	27	"	"	"	"	"	"	"	"	32	"	"	"	"	"	40	"	"	"	"	"	48	"	"	"	"	"	"	"	56	"	"
6'-9"	27	"	"	"	"	"	"	"	"	32	"	"	"	"	"	40	"	"	"	"	"	48	"	"	"	"	"	"	"	56	"	"
7'-0"	29	"	"	"	"	"	"	"	"	34	"	"	"	"	"	42	"	"	"	"	"	50	"	"	"	"	"	"	"	58	"	"
7'-3"	29	"	"	"	"	"	"	"	"	34	"	"	"	"	"	42	"	"	"	"	"	50	"	"	"	"	"	"	"	58	"	"
7'-6"	30	"	"	"	"	"	"	"	"	34	"	"	"	"	"	42	"	"	"	"	"	50	"	"	"	"	"	"	"	58	"	"
7'-9"	31	"	"	"	"	"	"	"	"	36	"	"	"	"	"	44	"	"	"	"	"	52	"	"	"	"	"	"	"	60	"	"
8'-0"	31	"	"	"	"	"	"	"	"	36	"	"	"	"	"	44	"	"	"	"	"	52	"	"	"	"	"	"	"	60	"	"
8'-3"	32	"	"	"	"	"	"	"	"	36	"	"	"	"	"	44	"	"	"	"	"	52	"	"	"	"	"	"	"	60	"	"
8'-6"	33	"	"	"	"	"	"	"	"	38	"	"	"	"	"	46	"	"	"	"	"	54	"	"	"	"	"	"	"	62	"	"
8'-9"	34	"	"	"	"	"	"	"	"	38	"	"	"	"	"	46	"	"	"	"	"	54	"	"	"	"	"	"	"	62	"	"
9'-0"	35	"	"	"	"	"	"	"	"	40	"	"	"	"	"	48	"	"	"	"	"	56	"	"	"	"	"	"	"	64	"	"
9'-3"	36	"	"	"	"	"	"	"	"	40	"	"	"	"	"	48	"	"	"	"	"	56	"	"	"	"	"	"	"	64	"	"
9'-6"	37	"	"	"	"	"	"	"	"	42	"	"	"	"	"	50	"	"	"	"	"	58	"	"	"	"	"	"	"	66	"	"
10'-0"	38	"	"	"	"	"	"	"	"	42	"	"	"	"	"	50	"	"	"	"	"	58	"	"	"	"	"	"	"	66	"	"

NOTE:
FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.

6020D

CURB INLET

BILL OF REINFORCING STEEL

North Central Texas Council of Governments

STANDARD SPECIFICATION REFERENCE 702

DATE OCT. '04

STANDARD DRAWING NO. 6020D

SUMMARY OF QUANTITIES FOR CURB INLETS

DEPTH "D"	5'-0" OPENING						10'-0" OPENING						15'-0" OPENING						20'-0" OPENING					
	WIDTH 3'-0"		WIDTH 4'-0"		WIDTH 5'-0"		WIDTH 3'-0"		WIDTH 4'-0"		WIDTH 5'-0"		WIDTH 3'-0"		WIDTH 4'-0"		WIDTH 5'-0"		WIDTH 3'-0"		WIDTH 4'-0"		WIDTH 5'-0"	
	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.	CONC C.Y.	STEEL LBS.
3'-6"	2.62	306	2.95	332	3.28	373	4.12	479	4.64	521	5.20	564	5.69	667	6.40	721	7.10	775	7.20	846	8.11	909	9.03	976
3'-9"	2.70	309	3.04	341	3.39	373	4.25	494	4.78	536	5.34	579	5.87	687	6.58	741	7.30	796	7.42	874	8.34	937	9.27	1010
4'-0"	2.78	328	3.14	364	3.49	399	4.38	518	4.92	565	5.49	610	6.05	718	6.77	776	7.49	835	7.64	909	8.58	976	9.51	1046
4'-3"	2.87	334	3.23	370	3.59	406	4.51	526	5.06	573	5.64	619	6.22	729	6.95	787	7.69	847	7.87	922	8.81	990	9.75	1061
4'-6"	2.95	356	3.32	394	3.69	431	4.64	558	5.20	607	5.79	656	6.40	770	7.14	830	7.88	891	8.09	973	9.04	1043	9.99	1115
4'-9"	3.03	361	3.41	410	3.79	438	4.77	566	5.34	616	5.94	665	6.57	780	7.32	841	8.07	903	8.31	986	9.27	1056	10.23	1129
5'-0"	3.12	367	3.51	416	3.90	445	4.90	574	5.47	624	6.09	674	6.75	791	7.51	853	8.27	915	8.53	999	9.50	1070	10.47	1144
5'-3"	3.20	383	3.60	424	4.00	465	5.03	600	5.61	652	6.23	704	6.93	827	7.69	890	8.46	955	8.76	1044	9.73	1118	10.71	1194
5'-6"	3.28	389	3.69	430	4.10	472	5.16	608	5.75	661	6.38	713	7.11	837	7.88	901	8.66	967	8.98	1057	9.97	1131	10.95	1208
5'-9"	3.37	405	3.78	451	4.20	495	5.29	635	5.89	690	6.53	744	7.28	874	8.07	940	8.85	1007	9.20	1102	10.20	1178	11.19	1258
6'-0"	3.45	415	3.88	460	4.30	504	5.42	646	6.03	702	6.68	757	7.45	888	8.25	954	9.05	1022	9.42	1119	10.43	1196	11.43	1276
6'-3"	3.53	425	3.97	470	4.41	515	5.55	661	6.17	718	6.83	773	7.63	908	8.44	975	9.24	1044	9.64	1147	10.66	1223	11.67	1305
6'-6"	3.62	437	4.06	486	4.51	532	5.68	681	6.31	739	6.97	797	7.81	935	8.62	1005	9.43	1057	9.87	1178	10.89	1258	11.92	1340
6'-9"	3.70	441	4.15	490	4.61	537	5.81	688	6.45	747	7.12	806	7.98	945	8.81	1015	9.63	1066	10.09	1191	11.12	1272	12.15	1355
7'-0"	3.78	460	4.25	510	4.71	560	5.94	716	6.59	777	7.27	837	8.16	981	8.99	1053	9.82	1126	10.31	1237	11.35	1319	12.40	1404
7'-3"	3.86	465	4.34	516	4.81	567	6.07	724	6.72	785	7.42	846	8.33	992	9.18	1065	10.02	1138	10.53	1249	11.59	1333	12.64	1418
7'-6"	3.95	477	4.43	529	4.91	570	6.20	742	6.86	804	7.57	866	8.51	1016	9.36	1089	10.21	1163	10.75	1290	11.82	1365	12.88	1451
7'-9"	4.03	491	4.53	544	5.02	597	6.33	762	7.00	826	7.71	890	8.67	1040	9.55	1116	10.41	1193	10.98	1313	12.05	1399	13.12	1498
8'-0"	4.12	496	4.62	550	5.12	604	6.46	770	7.14	834	7.86	899	8.86	1051	9.73	1129	10.60	1205	11.20	1325	12.28	1412	13.36	1510
8'-3"	4.20	504	4.71	559	5.22	613	6.59	784	7.28	849	8.01	915	9.04	1069	9.92	1149	10.80	1228	11.42	1353	12.51	1440	13.60	1529
8'-6"	4.28	519	4.80	576	5.32	632	6.71	804	7.42	871	8.16	938	9.21	1107	10.10	1176	10.99	1257	11.64	1385	12.74	1474	13.84	1565
8'-9"	4.37	528	4.90	586	5.42	643	6.84	819	7.56	886	8.31	954	9.39	1119	10.29	1199	11.18	1280	11.87	1410	12.97	1500	14.08	1592
9'-0"	4.45	545	4.99	605	5.53	664	6.97	842	7.70	912	8.46	982	9.56	1148	10.47	1231	11.38	1313	12.09	1447	13.21	1539	14.32	1631
9'-3"	4.53	554	5.08	614	5.63	674	7.10	858	7.84	929	8.60	999	9.74	1169	10.66	1252	11.57	1335	12.31	1474	13.44	1563	14.56	1660
9'-6"	4.62	568	5.17	630	5.73	692	7.23	878	7.97	950	8.75	1022	9.92	1195	10.84	1280	11.77	1365	12.53	1505	13.67	1600	14.80	1696
10'-0"	4.78	582	5.36	645	5.93	708	7.49	900	8.11	974	9.05	1048	10.27	1227	11.21	1312	12.16	1399	12.98	1546	14.13	1642	15.29	1739

NOTE:
FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLES ARE IN INCREMENTS OF 3 INCHES BUT ANY DEPTHS OTHER THAN THOSE SHOWN ABOVE MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS FALLING WITHIN THE LIMITS OF THE TABLE MAY BE FOUND BY INTERPOLATION.

6020E

CURB INLET

SUMMARY OF QUANTITIES

North Central Texas Council of Governments

STANDARD SPECIFICATION REFERENCE 702

DATE OCT. '04

STANDARD DRAWING NO. 6020E

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

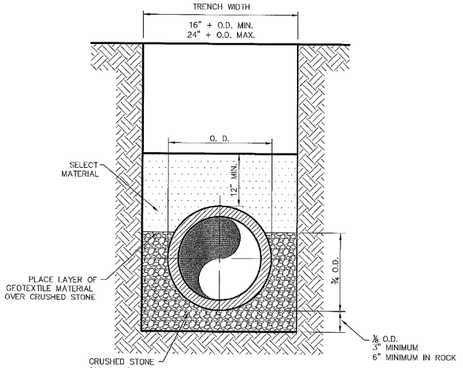
CONSTRUCTION DETAILS
SHEET 4 OF 6

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	DETAILS	CD-04

DATE: 11/18/2020
TIME: 12:03:13 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\14285501_Details.dgn

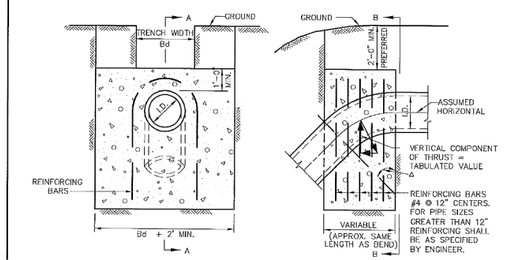


CLASS "B+" EMBEDMENT

CRUSHED STONE SHALL BE 3/4", PASSING # 4 SIEVE

TYPICAL P.V.C. WATER MAIN
EMBEDMENT

Addison! PUBLIC WORKS DEPARTMENT	P.V.C. WATER MAIN EMBEDMENT	STANDARD CONSTRUCTION DETAILS WATER	
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD-W01



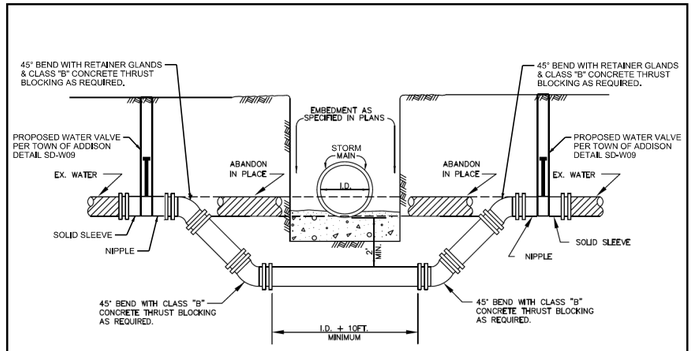
ELEVATION "B–B"

SECTION "A–A"

Δ →	11.25°		22.50°		30°		45°		67.50°		90°		← Δ
I.D. (IN.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	THRUST (TONS)	VOL. (C.Y.)	I.D. (IN.)
4,6,8	1.0	0.5	2.0	1.0	2.5	1.3	3.6	1.8	4.6	2.3	5.0	2.5	4,6,8
10,12	2.2	1.1	4.3	2.2	5.7	2.8	8.0	4.0	10.5	5.2	11.3	5.7	10,12
16,18	5.0	2.5	9.7	4.9	12.7	6.4	18.0	9.0	23.5	11.8	25.5	12.7	16,18
20	6.1	3.1	12.0	6.0	15.7	7.9	22.2	11.1	29.2	14.5	31.4	15.7	20
24	8.2	4.4	17.3	8.7	22.6	11.3	32.0	16.0	41.8	20.9	45.2	22.6	24
30	10.5	5.2	20.3	10.1	26.5	13.3	37.5	18.8	49.0	24.5	53.1	26.5	30
36	14.9	7.5	29.2	14.6	38.2	19.1	54.0	27.0	70.5	35.3	76.4	38.2	36
42	20.3	10.1	39.8	19.9	52.0	26.0	73.5	36.7	96.0	48.0	104.0	52.0	42
48	26.5	13.2	51.9	26.0	67.9	33.9	96.0	48.0	126.0	62.7	136.0	67.9	48
54	33.5	16.8	65.7	32.9	85.9	42.9	122.0	60.7	159.0	79.4	172.0	85.9	54
60	41.4	20.7	81.2	40.6	106.0	53.0	150.0	75.0	195.0	98.0	212.0	106.0	60
66	50.1	25.0	98.2	49.1	128.0	64.2	182.0	90.7	237.0	119.0	257.0	128.0	66
72	59.6	29.8	117.0	58.4	153.0	76.3	216.0	108.0	282.0	141.0	305.0	153.0	72
78	69.9	35.0	137.0	68.6	179.0	90.0	254.0	127.0	331.0	166.0	358.0	179.0	78
84	81.1	40.5	159.0	79.5	208.0	104.0	294.0	147.0	384.0	192.0	416.0	208.0	84
90	93.1	46.5	183.0	91.3	239.0	119.0	337.0	169.0	441.0	221.0	477.0	239.0	90
96	106.0	53.0	208.0	104.0	272.0	136.0	384.0	192.0	502.0	251.0	543.0	272.0	96

VERTICAL THRUST BLOCK

Addison! PUBLIC WORKS DEPARTMENT	VERTICAL THRUST BLOCK AT PIPE BEND	STANDARD CONSTRUCTION DETAILS WATER	
		DATE: AUGUST, 2010	REV DATE: –	SHEET : SD-W08

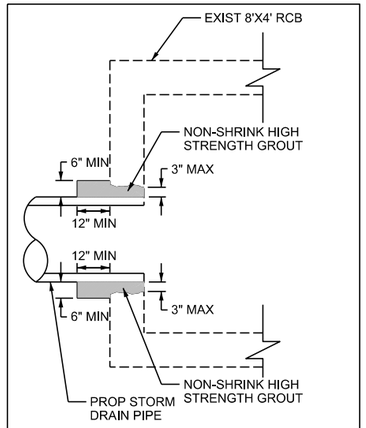


NOTE:

1. INSTALL GATE VALVE PER TOWN OF ADDISON DETAIL SD-W09 ON EACH SIDE OF THE 45° BEND. PAYMENT SHALL BE SUBSIDIARY TO WATER MAIN LOWERING ITEM.
2. PERFORM HYDROSTATIC FLUSH TEST AND CHLORINATION AFTER INSTALLATION (NO SEPARATE PAY ITEM).

STANDARD DRAWING NO. 4200

WATER MAIN LOWERING BELOW STORM MAIN	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 506.6	
		DATE OCT. '04	STANDARD DRAWING NO. 4200



NOTE:

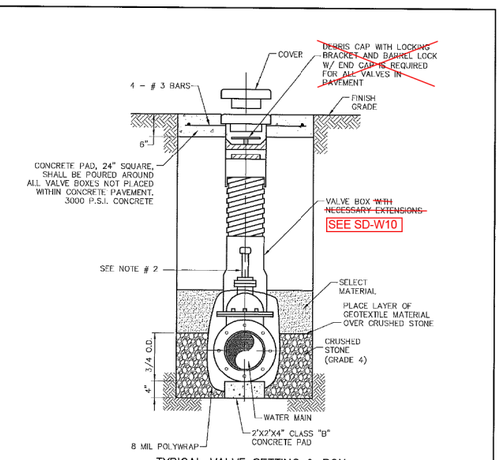
1. ALL ITEMS INCLUDING ALL LABOR, EQUIPMENT, MATERIALS, TOOLS, AND INCIDENTALS REQUIRED TO CONNECT NEW STORM SEWER PIPES AND BOXES TO EXISTING STORM SEWER PIPES AND BOXES SHALL BE PAID UNDER "PIPE TO EXISTING STRUCTURE CONNECTION" BID ITEM.

CONNECTION TO
EX. 8' x 4' RCB DETAIL
N.T.S

RECORD DRAWINGS

THE INTENT OF THE OWNER AND ENGINEER WAS TO CONSTRUCT THE FACILITIES ACCORDING TO THESE PLANS AS APPROVED BY THE TOWN OF ADDISON. THE OWNER OR ENGINEER DID NOT VERIFY LINES OR GRADES AFTER CONSTRUCTION AND IS NOT AWARE OF ANY CHANGES OR REVISIONS TO THESE PLANS DURING CONSTRUCTION EXCEPT AS NOTED BASED ON INFORMATION PROVIDED BY:
JOE FUNK CONSTRUCTION, INC.
11226 INDIAN TRAIL
DALLAS, TX 75229

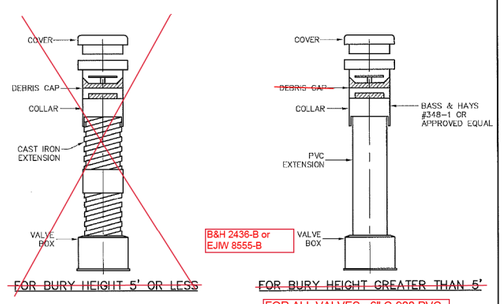
CONCRETE COLLAR
FOR END TO END PIPE EXTENSIONS



TYPICAL VALVE SETTING & BOX

NOTE:
1. 4"–12" R.S. GATE VALVES SHALL BE IN ACCORDANCE WITH TOWN OF ADDISON WATER SYSTEM REQUIREMENTS.
2. A PERMANENTLY ATTACHED VALVE EXTENSION STEM SHALL BE REQUIRED FOR ANY VALVE WHERE THE OPERATING NUT IS LOCATED IN EXCESS OF 5 FEET BELOW THE TOP OF VALVE BOX. THIS EXTENSION SHALL BE OF SUFFICIENT LENGTH TO INSURE THAT ITS TOP IS WITHIN 5 FEET OF VALVE BOX LID.
3. BLUE "V" (3") CUT INTO FACE OF NEAREST CURB AND POINTING TOWARD THE VALVE.
4. ALL IRON MATERIALS SHALL BE DOMESTIC. (MADE IN USA)
5. CRUSHED STONE SHALL BE 3/4", PASSING #4 SIEVE.

Addison! PUBLIC WORKS DEPARTMENT	VALVE SETTING ~~BOX~~	STANDARD CONSTRUCTION DETAILS WATER	
		DATE: AUGUST, 2010	REV DATE: 04/06/17	SHEET : SD-W09



NOTE

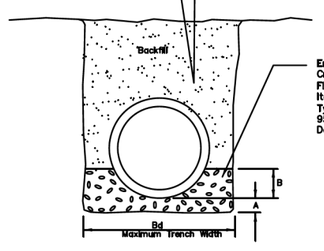
1. ALL CAST IRON FITTINGS SHALL BE DOMESTIC. (MADE IN U.S.A.)
2. ~~VALVE BOXES SHALL BE PROVIED FOR BURIED VALVES. THESE BOXES SHALL BE THREE (3) PIECE SCREW TYPE CAST IRON OF THE EXTENSION TYPE AND SHALL BE: BASS & HAYS THREE (3) PIECE ADJUSTABLE SCREW TYPE, EAST JORDAN IRON WORKS 8590 W/ 8890 LID, MUELLER NO. H-10360 OR APPROVED EQUAL. THE THREE (3) PIECES SHALL CONSIST OF THE TOP SECTION, BOTTOM SECTION AND COVER.~~

Addison! PUBLIC WORKS DEPARTMENT	VALVE BOX WITH EXTENSION	STANDARD CONSTRUCTION DETAILS WATER	
		DATE: ~~AUGUST, 2010~~ JANUARY 2017	REV DATE: ~~–~~	SHEET : SD-W10

Pipe Dia. (In.)	Bd. (In.)	A (In.)	B (1/4 O.D.) (In.)
15	35	4	5
18	39	4	6
21	42	4	7
24	46	4	7
27	49	5	8
30	53	5	9
33	57	5	10
36	68	5	11
39	72	6	12
42	75	6	13
45	78	6	14
48	82	7	15
51	85	7	15
54	89	8	16
60	96	8	18
66	102	8	20
72	108	8	22
78	114	8	23
84	120	8	25
90	126	8	27
96	132	8	29

When Under Pavement Backfill Shall be Crushed Concrete Flexible Base (TxDOT Item 247, Grade 1, Type D) Compacted to 95% Standard Proctor Density.

If Storm Sewer is not Under Pavement, Backfill Can be Clean Fill, (Native Material) Compacted to a Density of 95% Standard Proctor at a Moisture Content of 0% to Plus 6% of Optimum Moisture.



STORM SEWER EMBEDMENT

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS

REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

CONSTRUCTION DETAILS
SHEET 5 OF 6

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	DETAILS	CD-05

DATE: 11/18/2020
TIME: 12:19:08
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\1428501_Details.dgn

GENERAL NOTES FOR PEDESTRIAN FACILITIES

1. ALL SLOPES ARE MAXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. ADJUST CURB RAMP LENGTH OR GRADE OF APPROACH SIDEWALKS AS DIRECTED.
2. LANDINGS SHALL BE 5'X5' MINIMUM WITH A MAXIMUM 2% SLOPE IN ANY DIRECTION.
3. MANEUVERING SPACE AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4'X4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND WHOLLY OUTSIDE THE PARALLEL VEHICULAR TRAVEL PATH.
4. MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND CURB RAMP SURFACES IS 2%
5. CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NOT NORMALLY WALK ACROSS THE RAMP, EITHER BECAUSE THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR BECAUSE THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED. OTHERWISE, PROVIDE FLARED SIDES.
6. ADDITIONAL INFORMATION ON CURB RAMP LOCATION, DESIGN, LIGHT REFLECTIVE VALUE AND TEXTURE MAY BE FOUND IN THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS) AND 16 TAC §68.102.
7. CURB RAMPS SHALL BE ALIGNED WITH THEORETICAL CROSSWALKS, OR AS DIRECTED BY THE TOWN ENGINEER.
8. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. PROVIDE CURB RAMPS WHEREVER ON ACCESSIBLE ROUTE CROSSES (PENETRATES) A CURB.
9. FLARE SLOPE SHALL NOT EXCEED 10% MEASURED ALONG CURB LINE.
10. BARRIER FREE RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT EDITION OF THE TEXAS ACCESSIBILITY STANDARDS (TAS).
11. ALL BARRIER FREE RAMPS MUST PASS AN INDEPENDENT INSPECTION. A LETTER OF COMPLIANCE ACCEPTANCE IS REQUIRED PRIOR TO FINAL ACCEPTANCE BY THE TOWN OF ADDISON.
12. STREETS ON STEEP GRADE WILL REQUIRE LONGER TRANSITION ON UPGRADE SIDE.
13. MAXIMUM SLOPE ON RAMP PORTION SHALL NOT EXCEED 1" PER FOOT AT ANY LOCATION. VERTICAL DISTANCE BETWEEN STREET AND RAMP SHALL NOT EXCEED 4".

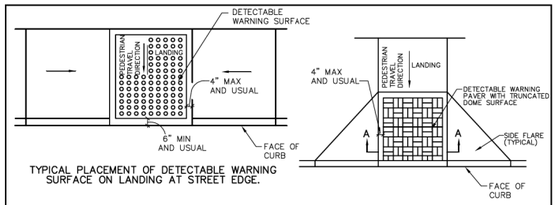
GENERAL NOTES FOR DETECTABLE WARNINGS

1. CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSIST OF RAISED TRUNCATED DOMES COMPLYING WITH SECTION 4.29 OF THE TEXAS ACCESSIBILITY STANDARDS (TAS). THE SURFACE MUST CONTRAST VISUALLY WITH THE ADJOINING SURFACES, INCLUDING SIDE FLARES. FURNISH DARK RED COLORED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE AND CREAM COLORED DETECTABLE WARNING SURFACE ADJACENT TO DARK RED COLORED BRICK PAVERS.
2. DETECTABLE WARNING SURFACES MUST BE SLIP RESISTANT AND NOT ALLOW WATER TO ACCUMULATE.
3. ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
4. DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
5. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS A MINIMUM OF 6" AND A MAXIMUM OF 8" FROM THE EXTENSION OF THE FACE OF CURB AND SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADIUS.

GENERAL NOTES FOR DETECTABLE WARNING PAVER UNITS

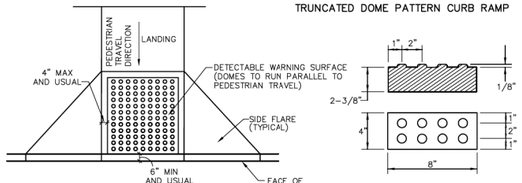
1. DETECTABLE WARNING PAVER UNITS SHALL MEET OR EXCEED ALL REQUIREMENTS OF ASTM C-936, C-33, AND BE LAID IN A TWO BY TWO UNIT BASKET WEAVE PATTERN OR AS DIRECTED.
2. LAY FULL-SIZE UNITS FIRST FOLLOWED BY CLOSURE UNITS CONSISTING OF AT LEAST 25 PERCENT OF A FULL UNIT. CUT DETECTABLE WARNING PAVER UNITS USING A POWER SAW.

PUBLIC WORKS DEPARTMENT | PEDESTRIAN FACILITIES GENERAL NOTES | STANDARD CONSTRUCTION DETAILS PAVING | DATE: AUGUST, 2010 | REV DATE: – | SHEET: SD-P37



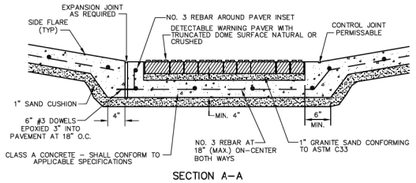
TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON LANDING AT STREET EDGE.

TRUNCATED DOME PATTERN CURB RAMP



TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN.

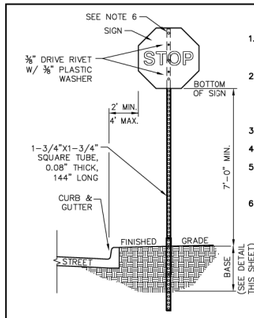
DETECTABLE WARNING PAVER



SECTION A–A

DETECTABLE WARNING PAVER (OPTION)

PUBLIC WORKS DEPARTMENT | DETECTABLE WARNING PAVER | STANDARD CONSTRUCTION DETAILS PAVING | DATE: AUGUST, 2010 | REV DATE: – | SHEET: SD-P41

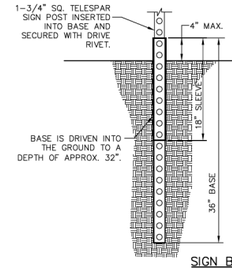


TYPICAL POST DETAIL

NTS

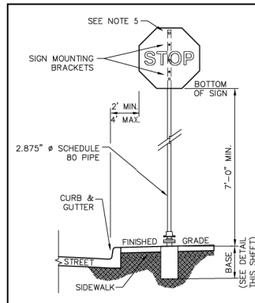
TRAFFIC CONTROL NOTES:

1. ALL SIGNAGE, BARRICADES, AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2006) AND THE STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS (2010).
2. LOCATIONS SHOWN FOR SIGNAGE AND PAVEMENT MARKINGS ARE APPROXIMATE; FINAL LOCATIONS MAY CHANGE DUE TO POST CONSTRUCTION CONDITIONS AND PRESENCE OF OTHER PHYSICAL FEATURES. FINAL LOCATION OF ALL TRAFFIC CONTROL DEVICES SHALL BE FIELD VERIFIED WITH THE PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION.
3. ALL SIGNS SHALL BE HIGH INTENSITY AND THE SIZES SHALL BE STANDARD UNLESS OTHERWISE NOTED.
4. ALL SIGNS, POSTS, AND MATERIALS SHALL BE INSTALLED PER DETAILS IN THIS MANUAL.
5. FOR STOP SIGNS THAT WILL ACCEPT FUTURE STREET SIGNS, EXTEND POST ABOVE THE STOP SIGN SO THAT 2 HOLES ARE AVAILABLE FOR MOUNTING. FOR ALL OTHERS, POST SHALL NOT EXTEND ABOVE THE SIGN.
6. CHANGES TO TYPICAL SIGN POST LOCATION MADE AT ENGINEER'S DISCRETION.



SIGN BASE DETAIL IN TURF

PUBLIC WORKS DEPARTMENT | SIGN POST IN TURF DETAIL | STANDARD CONSTRUCTION DETAILS TRAFFIC | DATE: AUGUST, 2010 | REV DATE: – | SHEET: SD-T01



TYPICAL POST DETAIL

NTS

TRAFFIC CONTROL NOTES:

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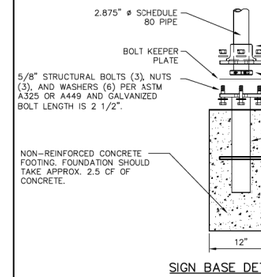
6. CHANGES TO TYPICAL SIGN POST LOCATION MADE AT ENGINEER'S DISCRETION.

SPECIFICATIONS FOR SCHEDULE 80 PIPE (2.875" OUTSIDE DIAMETER)
- 0.267" NOMINAL WALL THICKNESS
- STEEL TUBING PER ASTM A500 Gr C
- OTHER SEAMLESS OR ELECTRIC-RESISTANCE WELDED STEEL TUBING OR PIPE WITH EQUIVALENT
- OUTSIDE DIAMETER AND WALL THICKNESS MAY BE USED IF THEY MEET THE FOLLOWING:
  - 46,000 PSI MINIMUM YIELD STRENGTH
  - 62,000 PSI MINIMUM TENSILE STRENGTH
  - 21% MINIMUM ELONGATION IN 2"
- WALL THICKNESS (UNCOATED) SHALL BE WITHIN THE RANGE OF 0.248" TO 0.304"
- OUTSIDE DIAMETER (UNCOATED) SHALL BE WITHIN THE RANGE OF 2.855" TO 2.895"
- POWDER COATED FINISH, COLOR TO BE SELECTED BY THE TOWN OF ADDISON



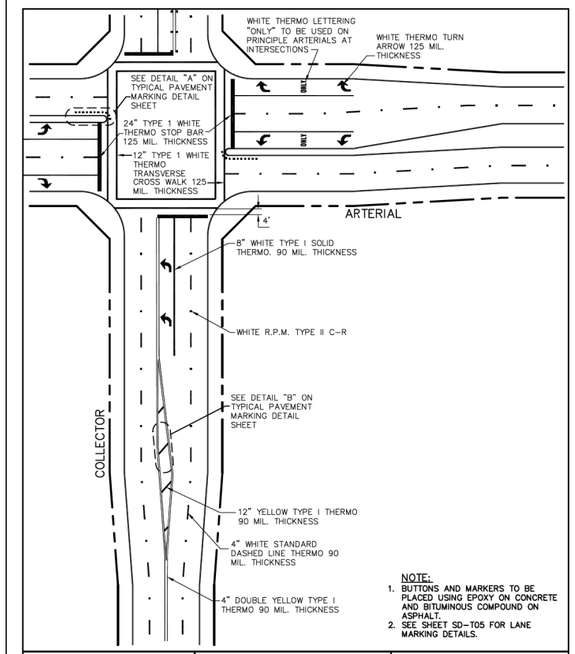
SIGN BASE DETAIL

NTS

DETAIL A

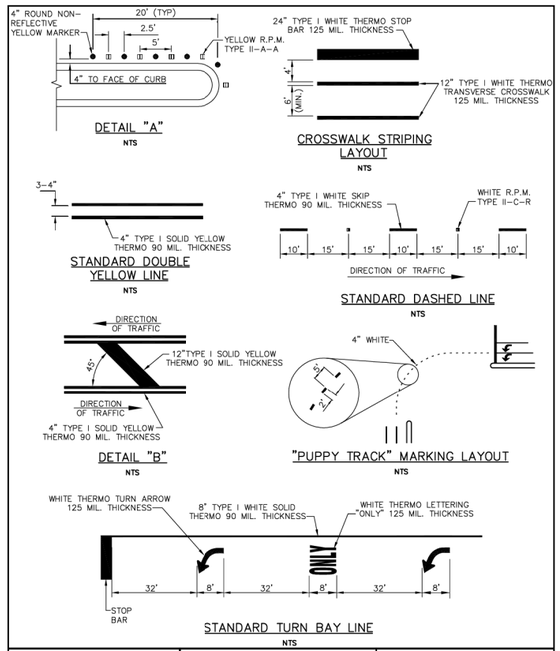
NTS

PUBLIC WORKS DEPARTMENT | SIGN POST IN SIDEWALK DETAIL | STANDARD CONSTRUCTION DETAILS TRAFFIC | DATE: AUGUST, 2010 | REV DATE: – | SHEET: SD-T02

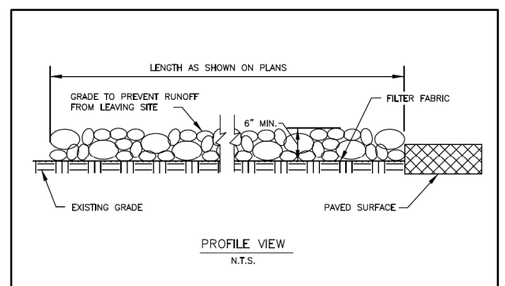


NOTE:
1. BUTTONS AND MARKERS TO BE PLACED USING EPOXY ON CONCRETE AND BITUMINOUS COMPOUND ON ASPHALT.
2. SEE SHEET SD-T05 FOR LANE MARKING DETAILS.

PUBLIC WORKS DEPARTMENT | TYPICAL PAVMENT MARKING LAYOUT | STANDARD CONSTRUCTION DETAILS TRAFFIC | DATE: AUGUST, 2010 | REV DATE: – | SHEET: SD-T04

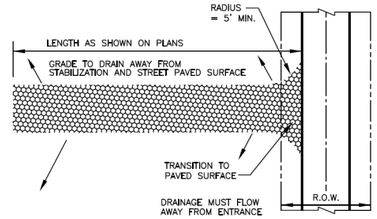


PUBLIC WORKS DEPARTMENT | TYPICAL PAVMENT MARKING DETAILS | STANDARD CONSTRUCTION DETAILS TRAFFIC | DATE: AUGUST, 2010 | REV DATE: – | SHEET: SD-T05



PROFILE VIEW

N.T.S.



PLAN VIEW

N.T.S.

STABILIZED CONSTRUCTION ENTRANCE

North Central Texas Council of Governments

STANDARD SPECIFICATION REFERENCE: 202.11 *
DATE: OCT. '04
STANDARD DRAWING NO.: 1070A

*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. *Public Works Construction Standards North Central Texas, Fifth Edition.*

STATE OF TEXAS
BROOK D. RETTA
131068
LICENSED PROFESSIONAL ENGINEER
NOV 07, 2019

REVISIONS			
REV NO.	DATE	DESCRIPTION	BY
1			
2			

ADDISON

CRIADO
4100 SPRING VALLEY ROAD, SUITE 1001
DALLAS, TX 75244
O: 972-392-9092 F: 972-392-9192
FIRM NO. F-4373

CONSTRUCTION DETAILS
SHEET 6 OF 6

OAKS NORTH DRIVE
DRAINAGE IMPROVEMENTS

TOWN OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CRIADO	CRIADO	NOV 2019	AS SHOWN	R14285.01	DETAILS	CD-06

DATE: 11/18/2020
TIME: 12:22:20 PM
FILE NAME: N:\PROJECT\R14285.00_Addison_2017 Various Projects\R14285.01_White Rock Drainage\07_DGN\076_Sheets\14285501_Details.dgn