OWNER: GILBERTS DEVELOPMENT, LLC ADDRESS: 340. W. BUTTERFIELD RD, UNIT 2D ELMHURST, ILLINOIS (847)774-9435 PHONE:

Proposed Improvements

THE CONSERVANCY - NEIGHBORHOOD 2A

STANDARD SYMBOLS

FREEMAN ROAD AND BLUE ASTER PARKWAY. **VILLAGE OF GILBERTS, ILLINOIS**

EXISTING PROPOSED STORM SEWER SANITARY SEWER COMBINED SEWER FORCEMAIN DRAINTILE WATER MAIN ELECTRIC GAS TELEPHONE OVERHEAD WIRES RIP RAP VALVE IN VAULT VALVE IN BOX FIRE HYDRANT BUFFALO BOX FLARED END SECTION ∯ (\$/© STREET LIGHT SUMMIT / LOW POINT RIM ELEVATION DITCH OR SWALE OVERFLOW RELIEF SWALL 1 FOOT CONTOURS mmmmm REVERSE CURB AND GUTTER SIDEWALK DETECTABLE WARNINGS PROPERTY LINE ELECTRICAL EQUIPMENT TELEPHONE EQUIPMENT SPOT ELEVATION 792.8)0 BRUSH/TREE LINE DECIDUOUS TREE WITH TRUNK DIA. IN INCHES (TBR) CONIFEROUS TREE WITH HEIGHT IN FEET (TBR) SILT FENCE RETAINING WALL

PROJECT LOCATION (NEIGHBORHOOD 2A) FREEMAN RD, (IL ROUTE 63) BINNE RD. LOCATION MAP

INDEX OF SHEETS

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4	OVERALL UTILITY PLAN
5	GRADING PLAN A
6	GRADING PLAN B
7	GRADING PLAN C
8	GRADING PLAN D
-9	BASIN OUTFALL UTILITY & GRADING PLAN
10	SOIL EROSION & SEDIMENT CONTROL PLAN
11	SOIL EROSION & SEDIMENT CONTROL NOTES AND DETAILS
12	BRIELLE BOULEVARD - PLAN & PROFILE STA. 20+00 - 29+04
13	SUNBURST LANE - PLAN & PROFILE STA. 0+00 - 8+73.88
14	MARIO LANE - PLAN & PROFILE STA, 0+00 - 9+00
15	MARIO LANE - PLAN & PROFILE STA. 9+00 -17+50
16	MARIO LANE - PLAN & PROFILE STA. 17+50 - 25+26
17	OAK SAVANNAH DR - PLAN & PROFILE
18	DRUMLIN DR & FOREST TRAIL LANE PLAN & PROFILE
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20	CONSTRUCTION DETAILS
21	CONSTRUCTION DETAILS
22	CONSTRUCTION DETAILS
23	CONSTRUCTION SPECIFICATIONS
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L1	LANDSCAPE PLAN
L2	LANDSCAPE PLAN
L3	LANDSCAPE PLAN
L4	LANDSCAPE PLAN
L5	LANDSCAPE DETAILS
L6	LANDSCAPE SPECIFICATIONS

ABBREVIATIONS

M M SOX	ADJUST AGGREGATE ARCHITECT BACK OF BACK BUTTOM OF PIPE BACK OF WALK BUFFALO BOCK BITUMINOUS BENCHMARK BY OTHERS CONTROL CENTERINE CONTROL CENTERINE CONTROL CENTERINE CONTROL CORRIGATED METAL PIPE CONTROL CLEMOUT DIABETER DUCTILE IRON PIPE DUCTILE IRON WATER MAIN DOWNS BUTTOM DIABETER ELECTRIC ELECT	PGL PI PL PP PROP PYC PVC PVC	FLOW LINE FORCE MAIN GROUND GAS GRADE AT FOUNDATION GUY WRE HEADMOULE HEADMOULE HEADMOULE HEADMOULE HIGH WATER LEVEL HYDRANT INLET INVERT INVE	R W. R.O. W. R.C.P. R.C.P. R.C.P. R.C.P. R.C.P. R.C.P. R.C.P. R.C.P. S.M.H. S.M.H. S.M.H. S.T. S.T.D. S.W.Y. T.T.P. S.T.T. S.T.T. S.T.T. S.W.Y.P.P. T.T.P.W.A.L.L. T.T.P.W.A.L.L. T.T.P.W.A.L.L. T.T.P.W.A.L.L. V.G.P. V.V.V.W.W.M. WM.M.	RADIUS RIGHT-OF-WAY REINFORCED CONCRETE PIPE RELIVAL REVERSE REVERSE SOULARE FOT SOULARE FOT SOULARE FOT SHOULDER STREET LIGHT SANTARY SOULARE STREET LIGHT SANTARY SANTARY SOULARE STREET LIGHT SANTARY SOULARE STREET LIGHT STREET LIGHT STREET LIGHT STREET LIGHT STREET LIGHT STREET LIGHT STANDARD SIDEWALK SOULARE YARDS TOP OF CURB TOP OF CURB TOP OF FOUNDATION TOP OF FOUNDATION TOP OF FOUNDATION TOP OF WALL TEMPORARY TEMPORARY
	EXISTING FIELD ENTRANCE FACE TO FACE FINISHED FLOOR	PVC PVI PVT P	POINT OF VERTICAL CORVATIONS POINT OF VERTICAL INTERSECTION POINT OF VERTICAL TANGENCY PAVEMENT	WL.	WATER LEVEL WATER MAIN
	FIELD ENTRANCE FACE TO FACE FINISHED FLOOR FLARED END SECTION	PVT	POINT OF VERTICAL TANGENCY	WM	WAILK MAIN

MANHARD CONSULTING, LTD. IS NOT RESPONSIBLE FOR THE SAFETY OF ANY PARTY AT OR ON THE CONSTRUCTION SITE. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ANY OTHER PERSON OR ENTITY PERFORMING WORK OR SERVICES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE JOB SITE SAFETY OF PERSONS ENGAGED IN THE WORK OR THE MEANS OR METHODS OF CONSTRUCTION.

- THE BOUNDARY LINES AND TOPOGRAPHY FOR THIS PROJECT THE BOUNDARY LINES AND IDPUGRAPHT FOR THIS PROJECT ARE BASED ON AN AERIAL SURVEY PREPARED BY AIR MAPS, INC. PERFORMED ON MAY 3, 2004 WITH A SUPPLEMENTAL FIELD SURVEY COMPLETED BY MANHARD CONSULTING, LTD. ON MARCH 17, 2016. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY MANHARD CONSULTING AND THE CLIENT IN WRITING OF ANY DIFFERING CONDITIONS.
- EXISTING TOPOGRAPHY, PROPOSED GRADING, AND FLOODPLAIN ELEVATIONS ARE REFERENCED TO NGVD 29 DATUM
- 3. CONVERSION FROM NGVD 29 TO NAVD 88 DATUM IS -0.190' (1.E. NGVD 29 - 0.190' = NAVD 88)

BENCHMARKS:

SOURCE BENCHMARK: CROSS CUT IN THE WEST END OF A CORRUGATED METAL PIPE CULVERT LOCATED APPROXIMATELY 0.55' SOUTHEASTERLY OF THE INTERSECTION OF KRUETZER AND HUNTLEY ROADS, IN THE SOUTHERLY RIGHT OF WAY OF HUNTLEY ROAD (KANE COUNTY BM 9-43)

(NGVD 1929) ELEVATION = 895.99

SITE BENCHMARK #1: SET RAILROAD SPIKE IN THE EAST FACE OF POWERPOLE WITH LIGHT ON THE EAST SIDE OF GALLIGAN ROAD AT THE INTERSECTION OF GALLIGAN AND FREEMAN ROAD.

ELEVATION = 892.56

SITE BENCHMARK #2:

SET RAILROAD SPIKE IN THE SOUTH FACE OF POWERPOLE AT THE NORTHEAST CORNER OF FREEMAN ROAD AND CHICAGO AND NORTHWESTERN RAILWAY.

ELEVATION = 894.12

Simply Call 811

UTILITY	CONTACTS
ELECTRIC COM ED 1950 DUNCAN PLACE WOODSTOCK, IL 60098 (815) 334-3313 CONTACT: KATHY NYSTROM	WATER: 73 INDUSTRIAL DRIVE GILBERTS, IL 60136 (847) 428-4167 CONTACT: JOHN CASTILLO
GAS: NICOR 1844 FERRY RD NAPERVILLE, IL 60563 (630) 893-8676 EXT. 2362 CONTACT: SCOTT STOGSDILL	VILLAGE OF GLBERTS PUBLIC WORKS 73 INDUSTRIAL DRIVE GLBERTS, IL 60136 (B47) 428-4167 CONTACT: JOHN SWEDDERG
SEWER 73 INDUSTRIAL DRIVE GILBERTS, IL 60136 (847) 428–4167 CONTACT: JOHN CASTILLO	

SURFACE WATER STATEMENT

DATED THIS 71h DAY OF JUNE

FRAHAN R. HATCHER
FR





ROJ ASSOC JRH JRH 07/22/18 SHEET

CONSERVANCY - NEIGHBORHOOD

GILBERTS, ILLINOIS

OF.

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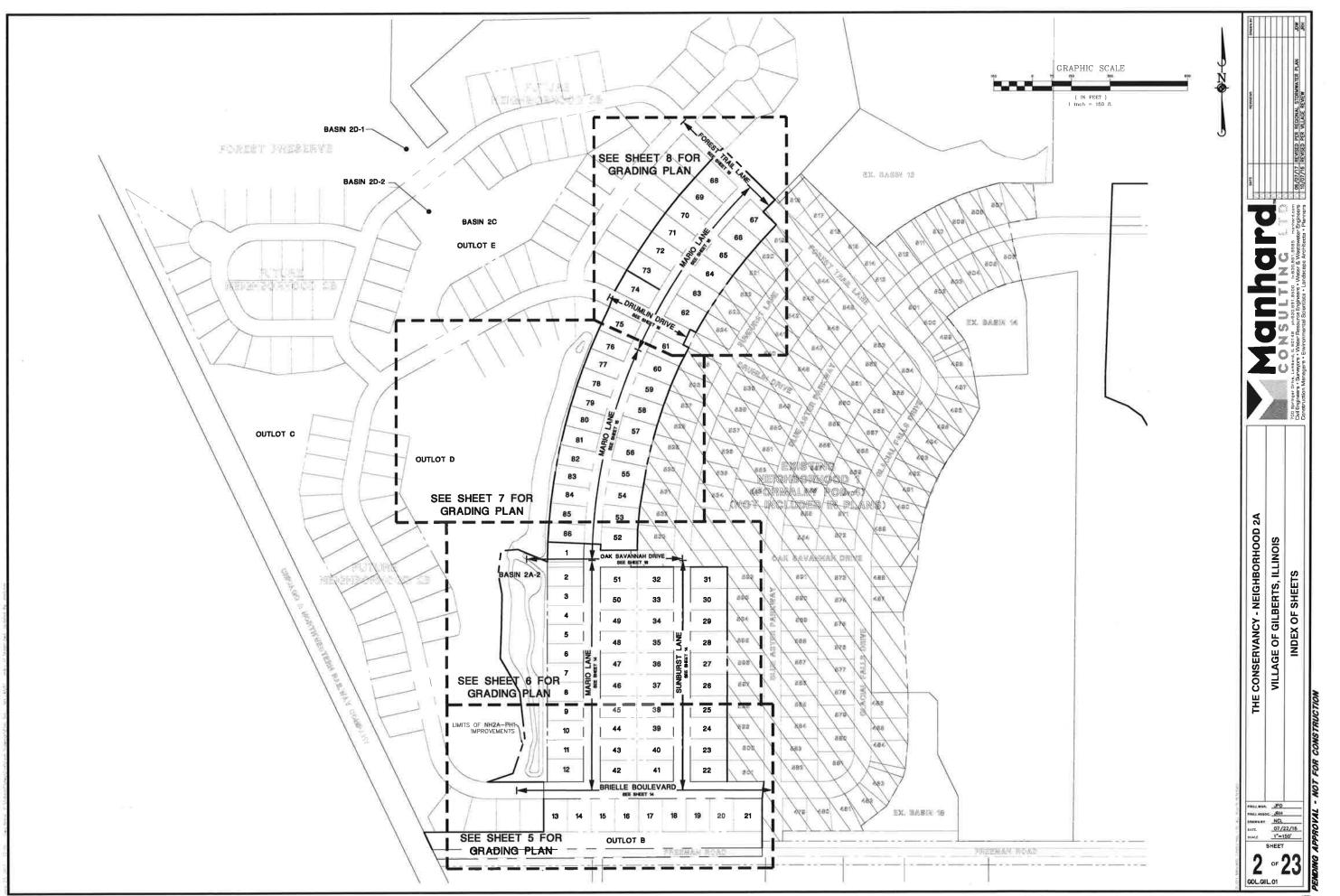
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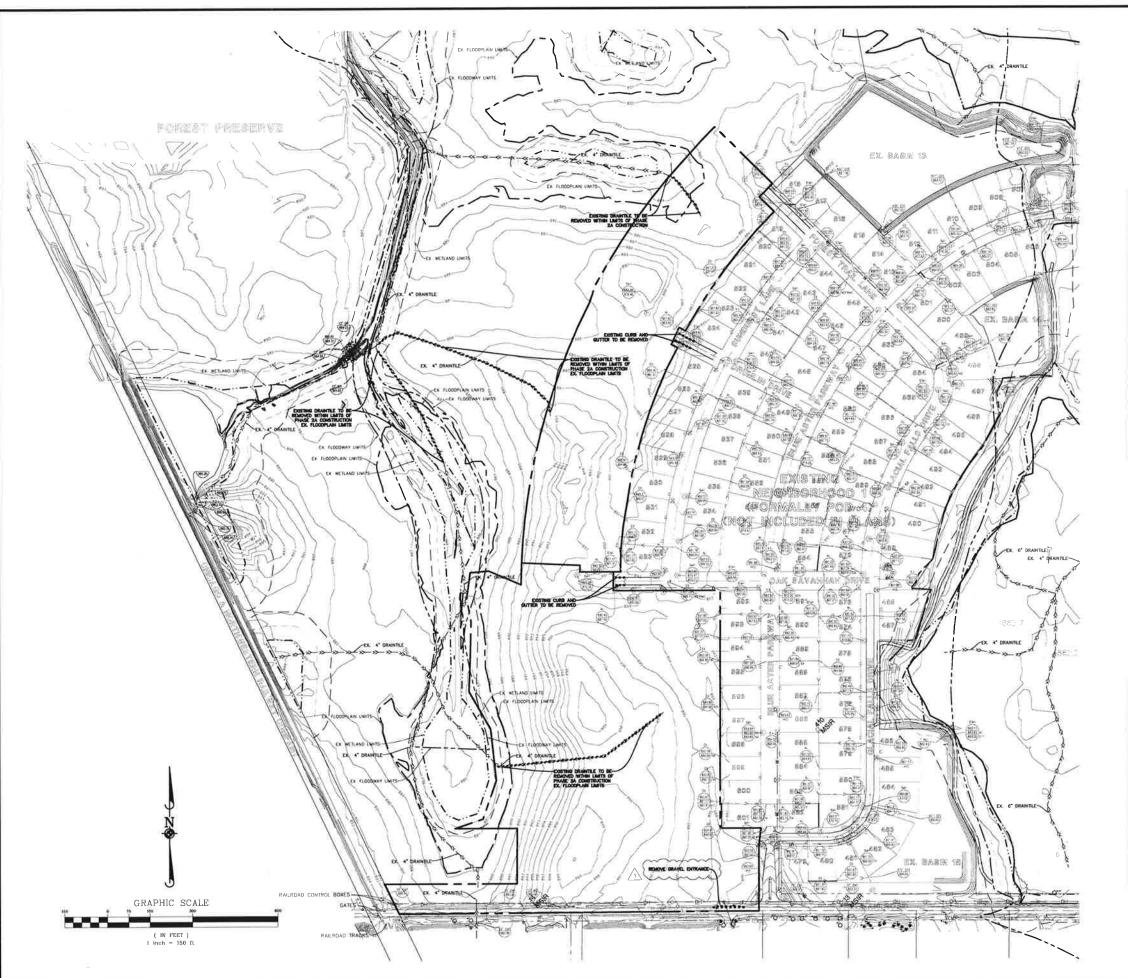
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N.T.S.

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JULIE





EXISTING CONDITIONS NOTES:

- LABJURG LUMBHURN NOTES

 I. EXISTING CONDITIONS AND DEMOUTION PLAN
 REPRESENT SITE CONDITIONS AS OF MARCH 17, 2016,
 CONTRACTOR SHALL INSPECT SITE PRIOR TO BIDDING
 WORK TO VERIFY ACTUAL FIELD CONDITIONS AS
 PORTIONS OF THE DEMOLITION WORK MAY HAVE SINCE
 BEEN COMPLETED, CONTRACTOR SHALL BE RESPONSIBLE
 TO COMPLETE ALL DEMOLITION WORK AS PER PLANS TO
 PREPARE THE SITE FOR CONSTRUCTION OF PROPOSED
 IMPROVEMENTS,
- L THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY, WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED TO.
- AT THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL AND LAWFUL DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THESE PLANS CAN BE CONSTRUCTED, ALL DEMOLITION WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS, ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
- EXISTING DRAIN TILE LOCATIONS SHOWN AREA APPROXIMATE PER THE "LOCATION AND DRAIN TILES" EXHIBIT PREPARED BY PHOENIX & ASSOCIATES DATED FEBRUARY 22, 2016,
- REFER TO SHEET 23 FOR DEMOLITION NOTES AND SPECIFICATIONS.

PAVEMENT AND BASE TO BE REMOVED

DEMOLITION LEGEND

BUILDING TO BE REMOVED

₩ W UTILITY STRUCTURE TO BE REMOVED

TREE TO BE REMOVED

(TBR) TO BE REMOVED

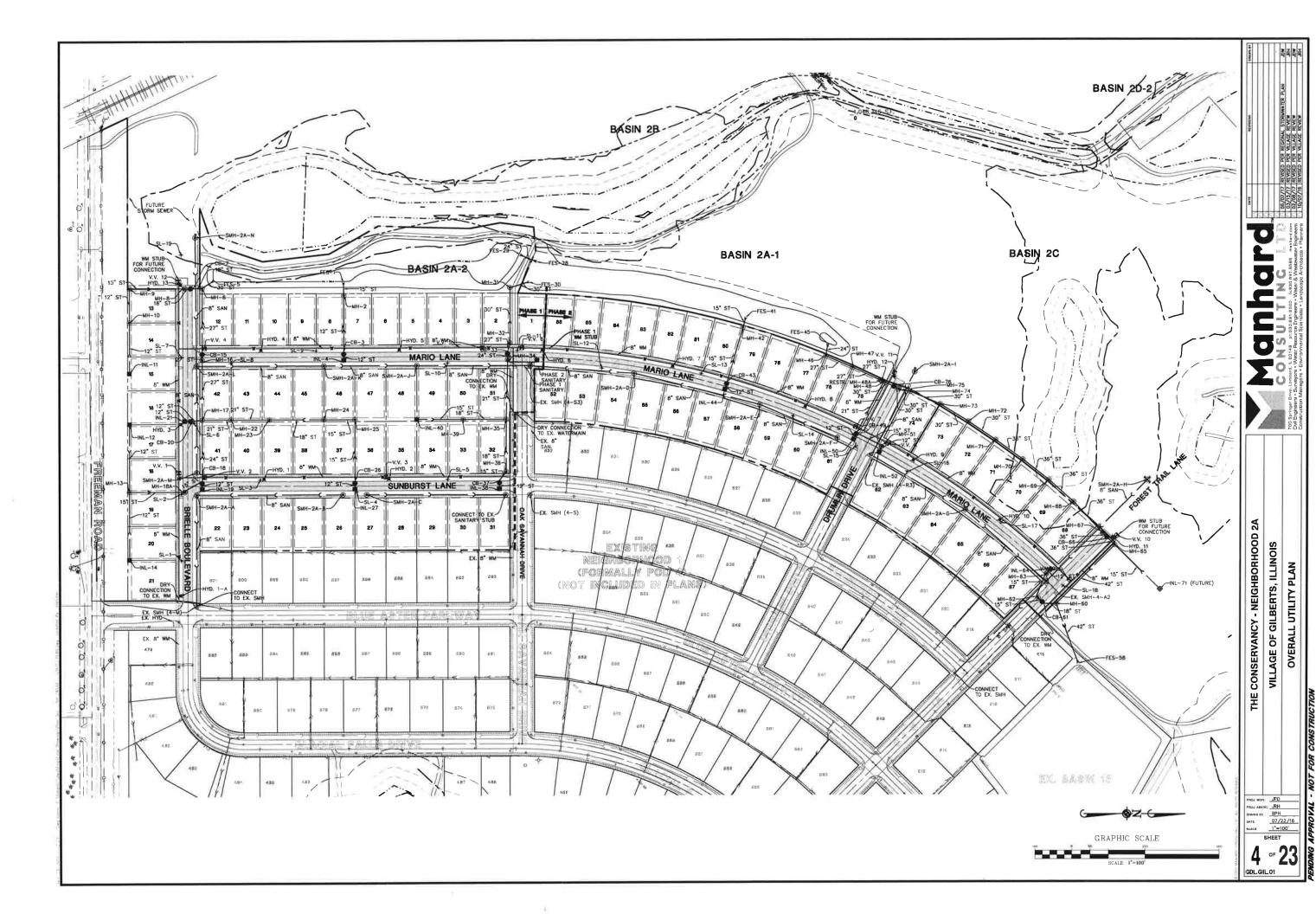
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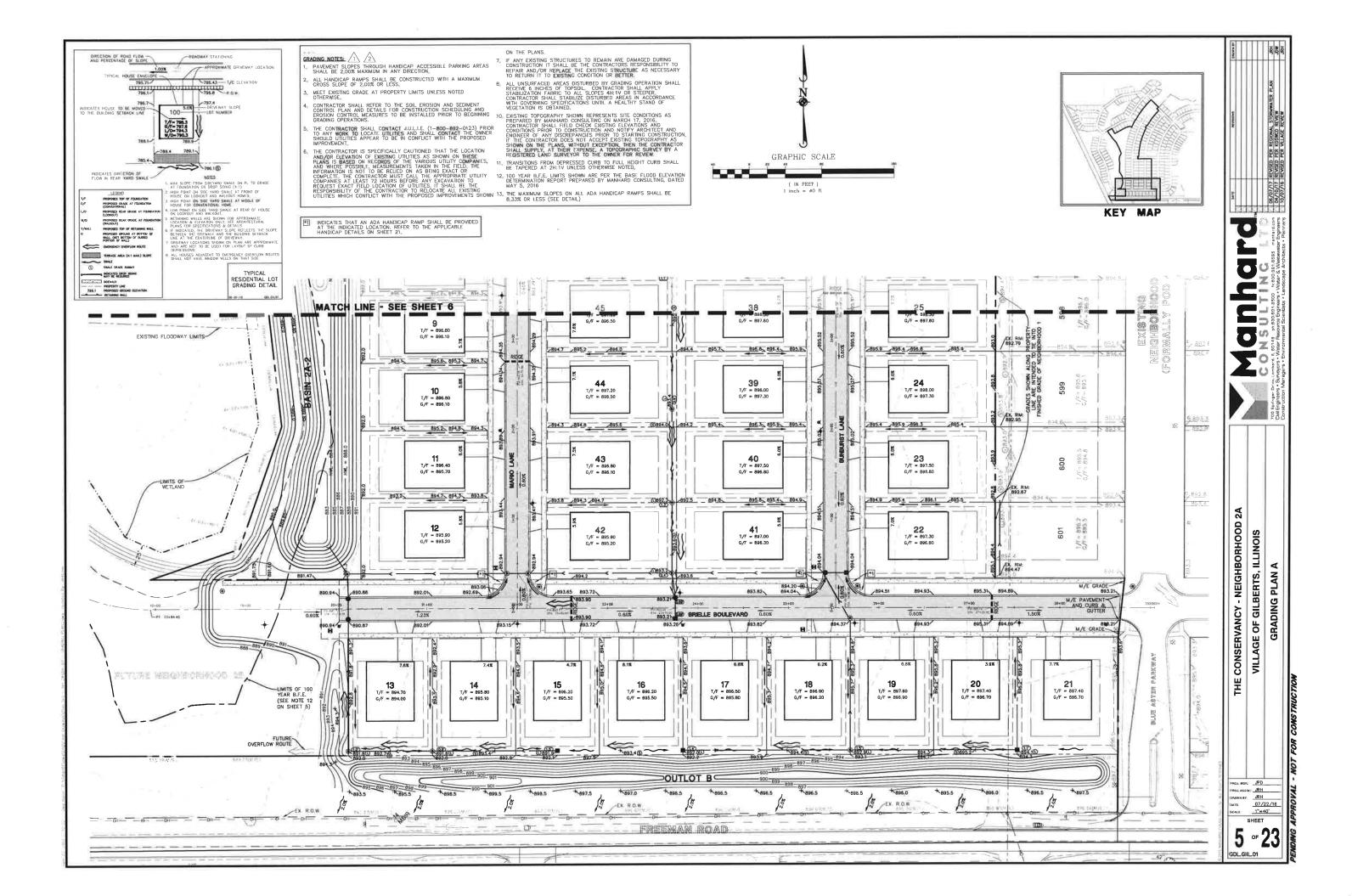
> EXISTING CONDITIONS & DEMOLITION PLAN VILLAGE OF GILBERTS, ILLINOIS

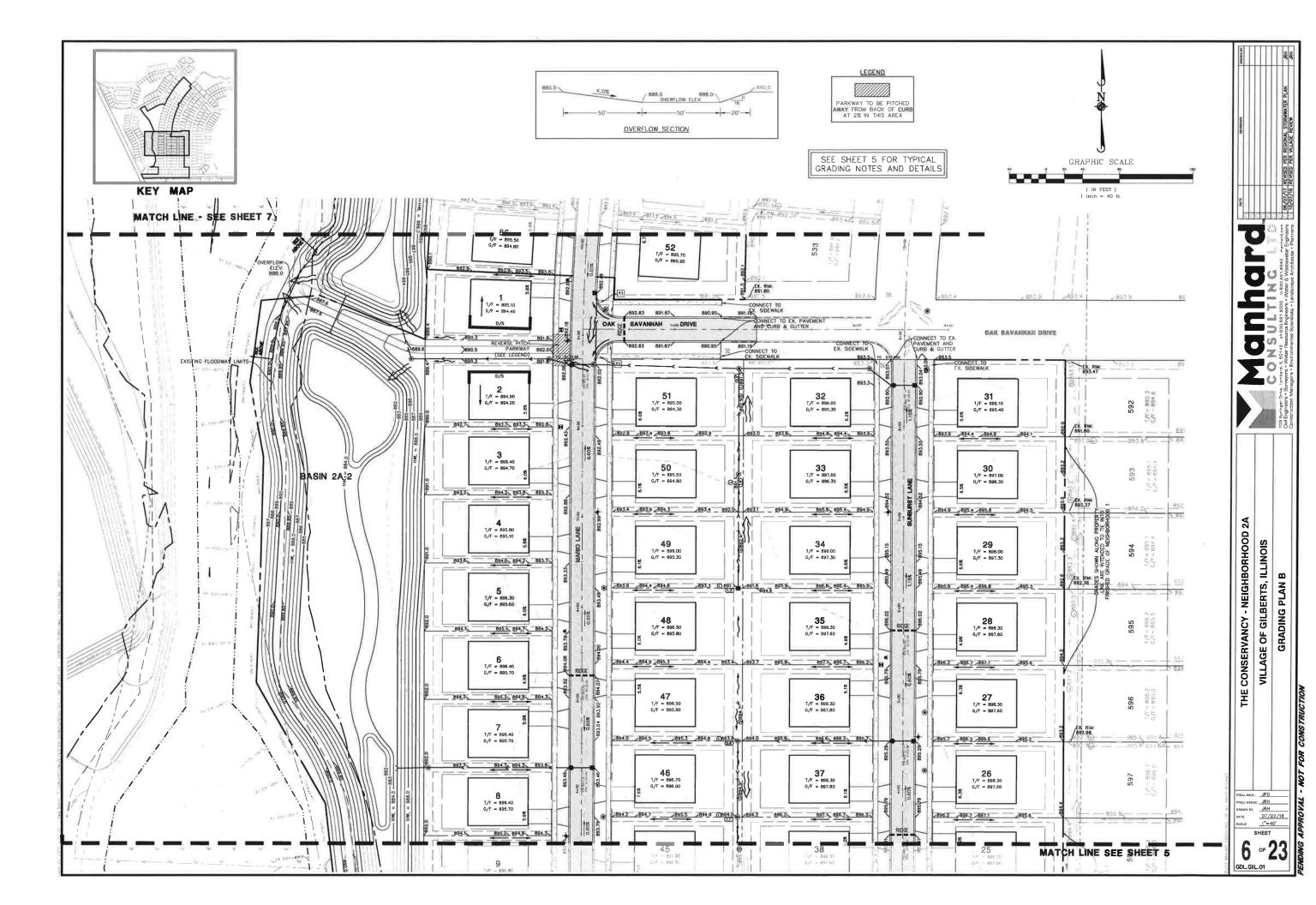
THE CONSERVANCY - NEIGHBORHOOD 2A

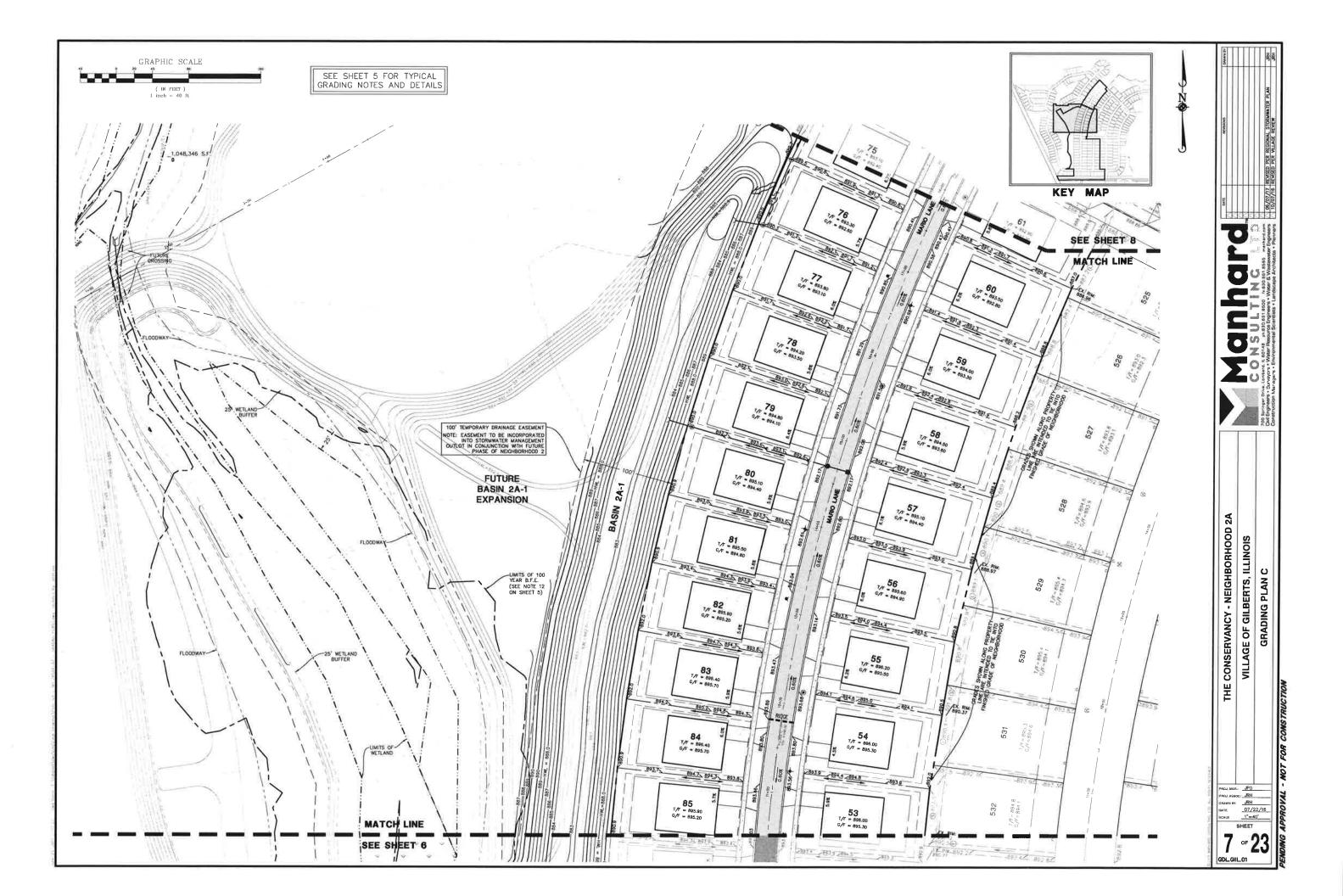
FROJ MOR. JPD JRH 07/22/16 1"=150"

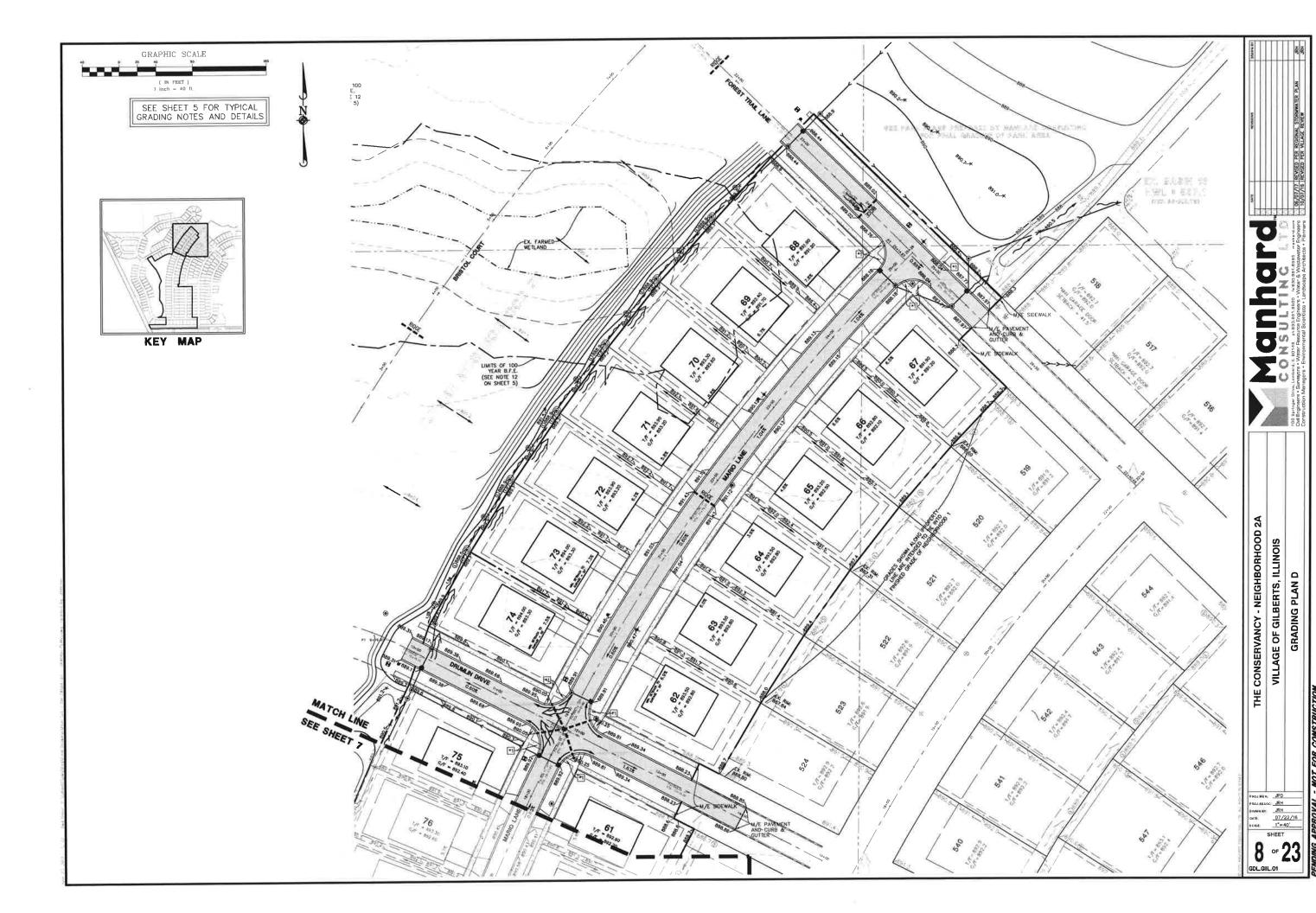
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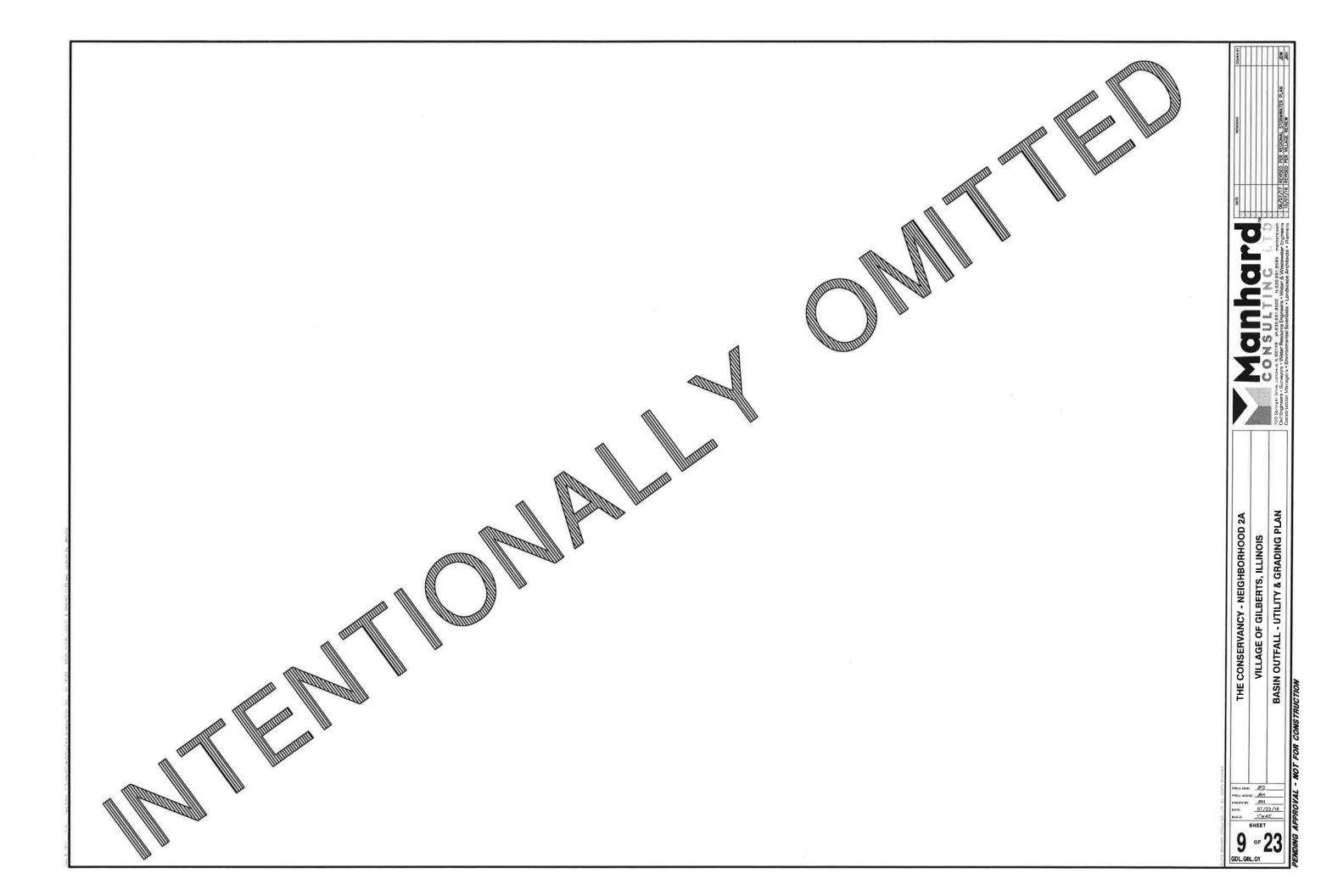


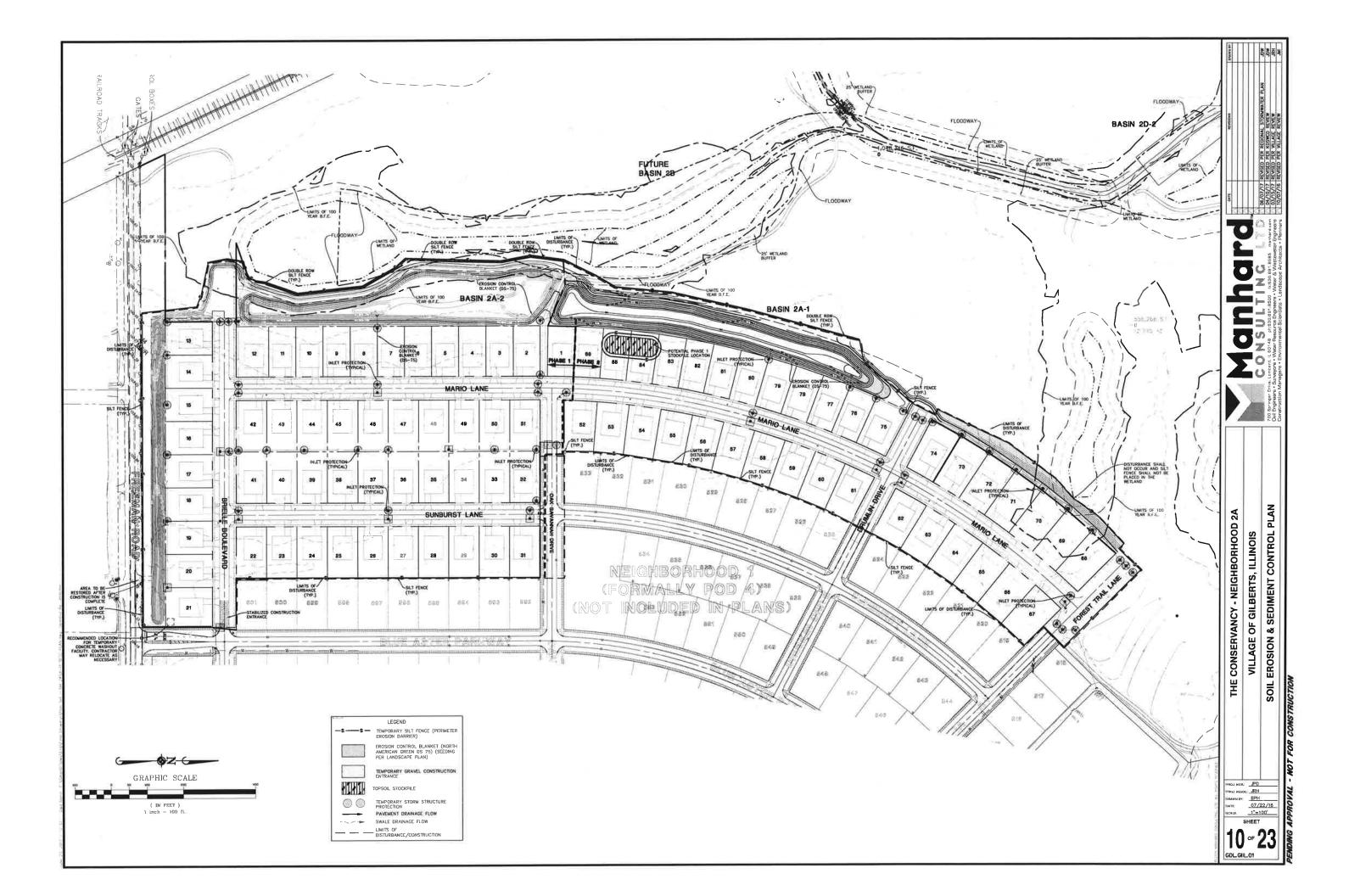












PLAN VIEW

SECTION VIEW

CONTRACTOR HAS THE OPTION OF USING A MANUFACTURED PRODUCT SUCH AS DANDY BAG IPP INLET FILTER, FLEXSTOR OF APPRILED FOLIAL

(ANCHOR EMPT) OF SAMBBAC (ANCHOR EMPT) 2 AT 10° OF SLOPE)

Pyrad a Aironn of 120 kg

CALE REPORT

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PLAN MEW

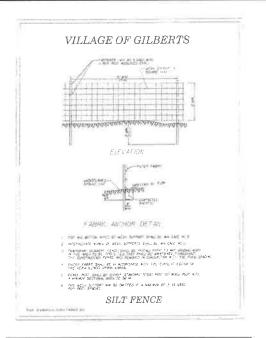
CONCRET WASHOUT AREA

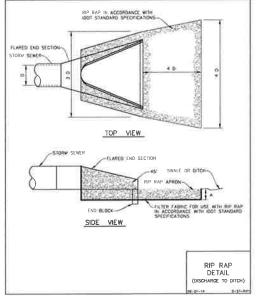
PLACE GEDTEXTILE FILTER FABRIC UNDER GRATE

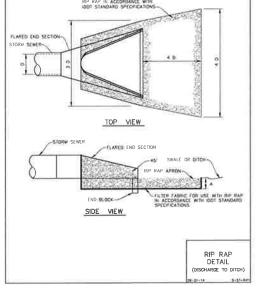
FILTER BASKE

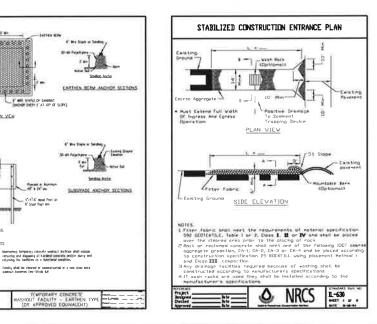
INLET SEDIMEN

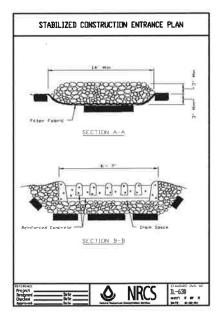
FILTER











TEMPERARY SUL STECKPILE DETAIL

-2

STONE RIP-RAP

15" B 3 8" 5 1-50 10 4.5"

18" B 4 16" 6' 1-150 40 7"

21" B 4 16" 7' 1-150 40 7"

24" B 4 16" 8' 1-150 40 7"

27" B 4 16" 9' 1-150 40 7"

30" B 4 16" 10" 1-150 40 7" 36" B 5 22" 12' 3-400 90 10"

42" B 5 22" 14' 3-400 90 10"

48" B 6 26" 16' 5-600 170 12"

54" B 6 26" 16' 6-600 170 12"

72" B 6 26" 24' 6-600 170 12"

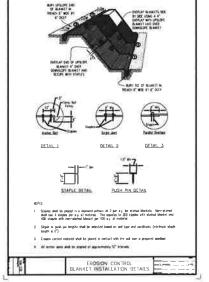
FOR PIPE LARGER THAN 72" A SPECIAL DESIGN OF RIP-RAP OR APRON IS REQUIRED.

2 REFER TO LD O.T. SPECIFICATIONS AND STANDARDS FOR BEDDING GRADTION

60" B 6 26" 20' 6-600 170 12" 10"

3 8" 4' 1-50 10 4.5"

NOMEN



BEDDING

MINIMUM THICKNESS (IN.)

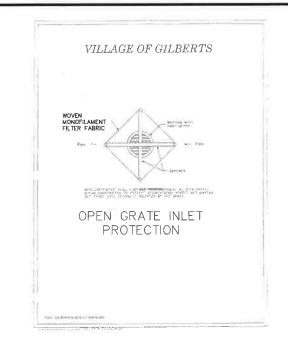
N/A

N/A

STONE RIP RAP

DETAIL

5-51-995



KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT STANDARD NOTES:

- NOTES:
 UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MININUM STANDARDS AND SEPCIFICATIONS IN THE ILLINOIS URBAN MANUAL LATEST EDITION. THE KANE—DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KOSWED) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE—CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE PRE—COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-STED BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTRO
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVE EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.
- DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS, DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED.
- TIES ON STRAMMATER STRUCTURES BYRCHIBITED,
 TISTHE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL
 CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY
 PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN
 IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS
 AND THE NATIONAL POLLUTIANY DISCHARGE ELIMINATION SYSTEM
 (MPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

PER KANE COUNTY STORMWATER ORDINANCE:

- ER KANE COUNTY STORMMATER ORDINANCE:
 THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER
 SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING
 SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY
 BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE
 COVER FOR PROPER EROSION AND SEGMENT CONTROL. ALL OPEN
 AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER
 SHALL RECEIVE TEMPORARY SEDDING, MULCHING AND/OR EROSION
 CONTROL BLANKET PRIOR TO THE EAL GROWING
 SEASON MUST MORPORATE SOIL STABILIZATION
 MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS
 EROSION CONTROL BLANKET PRIOR TELY ON VEGETATIVE COVER SUCH AS
 EROSION CONTROL BLANKET PRIOR TELY ON VEGETATIVE COVER SUCH AS
 EROSION CONTROL BLANKET PRIOR TELY ON VEGETATIVE COVER SUCH AS
 EROSION CONTROL BLANKET AND HEAVY MULCHING.
- ENUSIUM CUNTROL BLANKET AND HEAVY MULCHING.
 THE LIMITATION ON SITE DISTURBANCE IS IN RECOGNITION OF THE
 NEED TO PREVENT EROSION IN PREFERENCE TO CONTROLLING
 SEDIMENT. SITE DISTURBANCES SHALL NOT EXCEED 20 ACRES AT
 ANY ONE TIME UNLESS IT IS TO BALANCE CUT AND FILL, FOR
 WHICH A MAXIMUM OF 40 ACRES MAY BE DISTURBED AT ANY ONE
 TIME.

THE PRIMARY PURPOSE OF ALL SOIL EROSION AND SEDIMENT INE PRIMMARI PORPUSE OF ALL SUIL EROSION AND SEDIMENT CONTROL BIPP'S (BEST MANAGEMENT PRACTICES) IS TO PREVENT SEDIMENT FROM LEAVING THE SITE, ALL STORMWATER DISCHARGE LOCATIONS WITH A DIRECT CONNECTION TO THE SITE SHOULD BE MONITORED CLOSELY FOR EVIDENCE OF SEDIMENT, KDSWCD MAY REQUEST THAT ADDITIONAL BIPP'S BE INSTALLED IN THE EVENT OF OFF-SITE SEDIMENT DISCHARGE OR HIGH POTENTIAL FOR DISCHARGE

CONSTRUCTION SEQUENCE:

- INSTALL SILT FENCE AT LOCATIONS AS INDICATED ON THE PLANS.
- PROVIDE STABILIZED CONSTRUCTION ENTRANCE.
- CONSTRUCT TEMPORARY SEDIMENT TRAPS AND/OR BASINS
- STRIP EXISTING TOPSOIL FROM PROPOSED STORMWATER MANAGEMENT AREAS AND STOCKPILE WHERE SHOWN ON PLANS, \parallel
- PROVIDE SILT FENCE AROUND THE BASE OF THE STOCKPILES.
- CONSTRUCT STORMWATER MANAGEMENT (DETENTION) FACILITIES TO SUB-GRADE AND INSTALL OUTLET PIPES.**
- COMPLETE TOPSOIL PLACEMENT AND PERMANENT SEEDING AND SODDING OF STORMWATER MANAGEMENT FACILITIES,
- CUT AND FILL SITE TO PLAN SUB-GRADE CONSTRUCT UNDERGROUND IMPROVEMENTS, i.e. SANITARY SEWER WATERMAIN AND STORM SEWER**, ETC.
- O CONSTRUCT PAVEMENT IMPROVEMENTS PER PLAN. 1. COMPLETE CONSTRUCTION OF SITE WITH PERMANENT STABILIZATION.
- 12 REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES. ** INSTALL INLET PROTECTION AROUND DRAINAGE STRUCTURES AS CONSTRUCTED.

SOIL EROSION AND SEDIMENTATION CONTROL GENERAL NOTES:

- ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHAL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "ILLINOIS URBAN MANUAL".
- MAINTENANCE AND REPLACEMENT OF EROSION CONTROL ITEMS, WHEN DIRECTED BY THE OWNER, SHALL BE CONSIDERED AS INCIDENTAL TO CONTRACT.
- THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES A'
 LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS
 OF THE END OF A STORM THAT IS 0,5 INCHES OR GREATER OR
 EQUIVALENT SNOWFALL ANY NECESSARY REPAIRS OR CLEANUP TO
 MAINTAIN THE EFFECTIVENESS OF SAID MEASURES SHALL BE MADE
- INSTALL ALL PERIMETER SILT FENCING PRIOR TO ANY CLEARING OR GRADING, ONSITE SEDIMENT CONTROL MEASURES AS SHOWN AND SPECIFIED BY THIS EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE CONSTRUCTS AND FUNCTIONAL PRIOR TO INITIATING CLEARING, GRADING, STREPPING, EXCAVATION OR PILLING ACTIVITIES ON THE SITE.
- STADING, SINTETING, CALAVARION ON FILLING ACTIVITIES ON THE SITE.
 STORM WATERS FALLING ON THE ENTIRE SITE SHALL BE DIMERTED INTO
 THE DETENTION BASIN, PRIOR TO BEGINNING MASS EXCAVATION, THE
 CONTRACTOR SHALL CONSTRUCT DITCHES, SWALLS, SEDIMENTATION TRAP
 AND SILTATION CONTROL MEASURES AS REQUIRED TO INTERCEPT SURFAC
 WATERS BEFORE THEY FLOW ONTO ADJACENT PROPERTY AND CONVEY
 THEM TO THE DETENTION BASIN.
- DISTURBED AREA SHALL BE STABILIZED BY SEEDING AT A MINIMUM, WITHIN ONE (1) WORKING DAY OF COMPLETION OF DISTURBENCE UNLESS THE AREA WILL BE DISTURBED WITHIN FOURTEEN (14) DAYS AND GRASS SOWN AS NECESSARY TO RE—ESTABLISH VEGETATION FOR CONTROL OF SILTATION AND SOIL EROSIONS.
- TEMPORARY SEED MIXTURE SHALL BE APPLIED AT 90 LBS/ACRE,
- INLET PROTECTION SHALL BE INSTALLED UNDER THE GRATING OF EACH DRAINAGE STRUCTURE.
- TOPSOIL STOCKPILES SHALL BE SEEDED WITHIN SEVEN (7) CALENDAR DAYS OF COMPLETION FOR EROSION CONTROL UNLESS THEY WILL BE DISTURBED WITHIN FOURTEEN (14) CALENDAR DAYS, ALL SOIL STORAGE PILES SHALL BE PROTECTED FROM EROSION WITH SILT FENCE ON THE DOWN SLOPES DISC OF THE PILES.
- O, DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED.
- WATER PUMPED DURING CONSTRUCTION OPERATION SHALL BE FILTERED.
- 2. DUST CONTROL SHALL BE PERFORMED ON A DAILY BASIS USING WATER DISPERSED FROM A TRUCK MOUNTED TANK WITH STANDARD DISCHARGE HEADER TO PROVIDE A UNIFORM RATE OF APPLICATION.
- 5. TEMPORARY GRAVEL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED, ADJUSTED OR RELOCATED AS NECESSARY TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC ROADWAYS, ANY SEDIMENT REACHING A PUBLIC ROAD SHALL BE REMOVED BY SHOVELING OR STREET CLEANING BEFORE THE END OF EACH WORKING DAY.
- ANY LOOSE MATERIAL THAT IS DEPOSITED IN THE FLOW LINE OF ANY GUTTER OR DRAINAGE STRUCTURE DURING CONSTRUCTION OPERATIONS SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY.
- OVERLAND FLOW SHALL BE DIRECTED TO THE DETENTION BASIN PRIOR LEAVING THE SITE.
- 5. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE CLIENT OR OTHER JURISDICTIONAL GOVERNMENTAL ENTITIES.
- 17. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL JURISDICTIONAL GOVERNMENTAL AGENCY REQUIREMENTS WITHIN 30 DAYS OF FINAL STABILIZATION.
- 8 CONTRACTOR SHALL REMOVE AND REPLACE SILT FENCE AROUND PROPOSED IMPROVEMENTS AS NECESSARY TO MAINTAIN CONSTANT PROTECTION FOR THE WETLAND
- 9. ONCE THE CONTRIBUTING AREA TO THE PROPOSED DETENTION BASIN HAS BEEN STABILIZED, THE BASIN MUST BE CLEANED OUT TO ALLOW FOR UTILIZATION OF SEDIMENT STORAGE.

51/81/2/A107 COLOR	COMMAN SEEDINGS C B AND AND AND AND SEP OCT MAY OF			50	NL P	HOTE	CTION	CHA	MRI				
OPMANT SEENCES B B B B B B B B B B B B B B B B B B B	00 00	STABLIZATION	jan.	***	uke.	APE	MAT.	AN	JUL	AUG	SEP	oct vov	90
	MUCHNO V	DORMANT SEEDNOS TEMPORARY SEEDNOS TEMPORARY SEEDNOS	m-		c-								

NOTE: THIS CHART IS A BUIDE TO ASSISTE THE CONTRACTOR IN UNDERSTANDING OPTIONS FOR SOIL STABILIZATION. THE LANDSCAPE PLAN SHALL TAKE PRECEDENCE OVER THIS TOLDHE STAPL OF CONSTRUCTING DISCUSSED WITH THE LANDSCAPE ARCHITECT PRIOR

"THESE FROSION CONTROL PLANS ARE A PORTION OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA) TOTAL REQUIREMENTS FOR A COMPLETE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE GENERAL NPDES PERMIT NO. ILR10. CLIENT AND/OR CONTRACTOR WILL BE RESPONSIBLE FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE GENERAL NPDES PERMIT AND COMPILATION OF THE COMPLETE SWPPP.

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PER KOSWCO PER VILLAGE

DETAILS 2A CONTROL NOTES AND - NEIGHBORHOOD GILBERTS, ILLINOIS

CONSERVANCY

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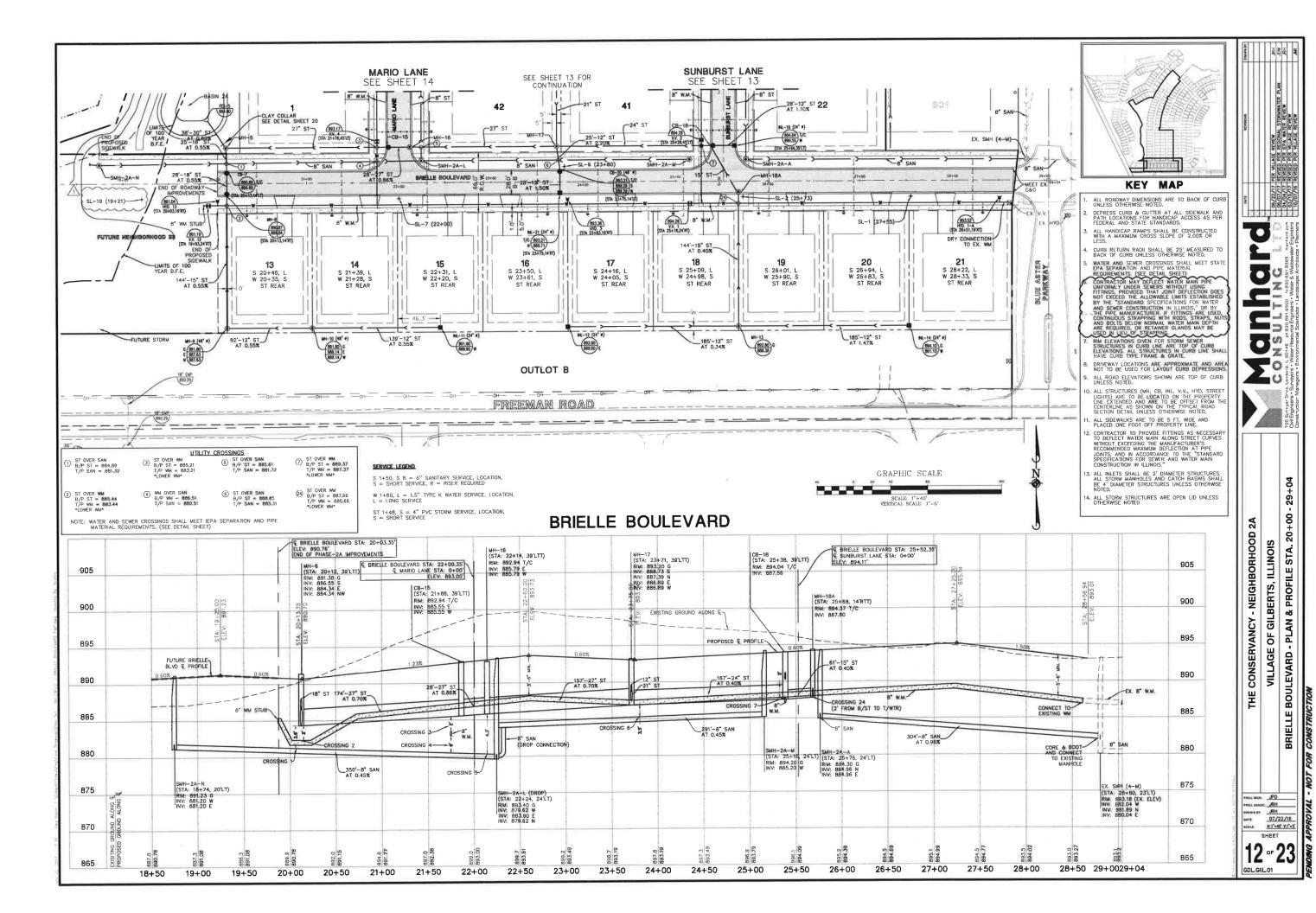
VILLAGE OF

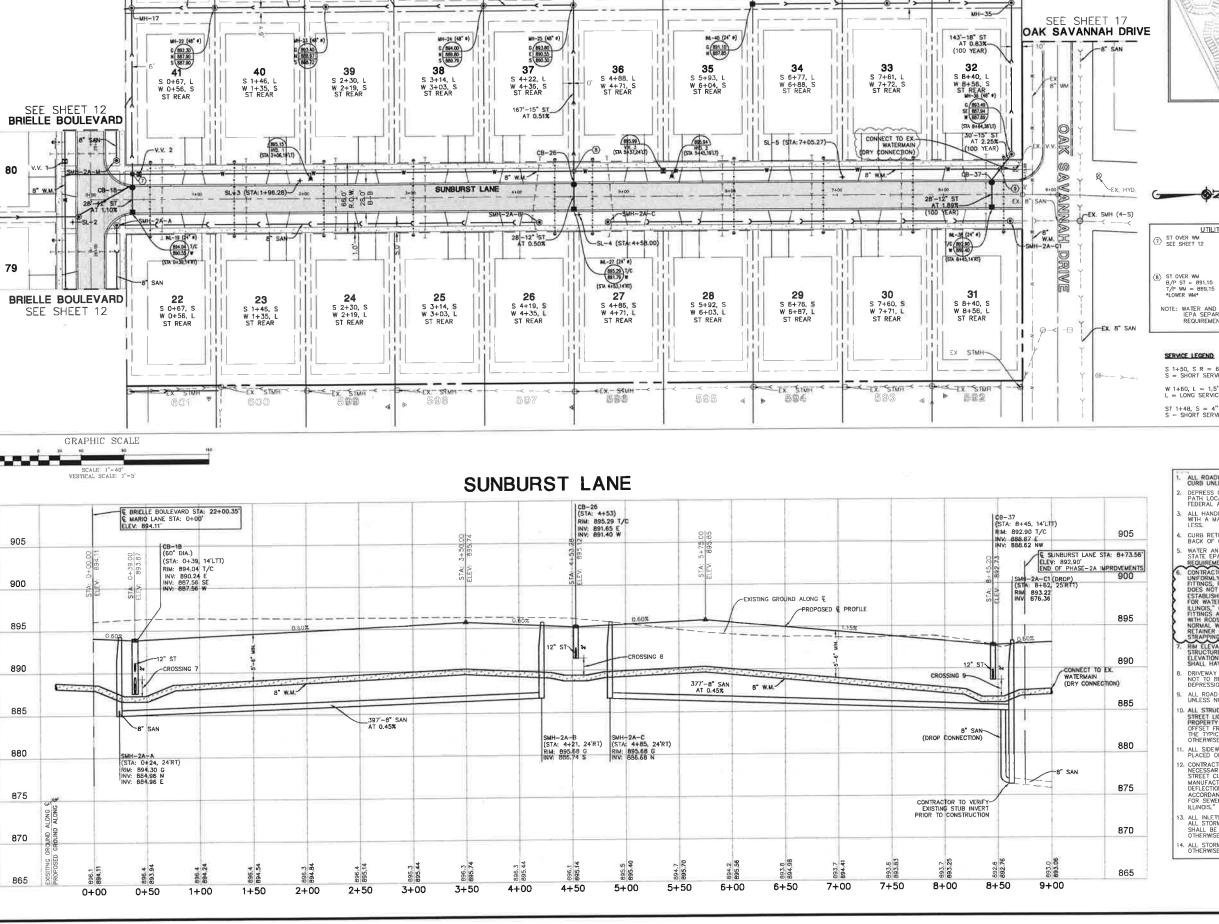
EROSION & SOIL

SEDIMENT

FROJ MOR, JPD ROJ ASSOC: JRH DRAWN BY BPH 07/22/16 N.T.S

SHEET **11 ∘ 23** GDLGIL.01





148"-18" ST___ AT 0.55%

84'-15" ST_ AT 0.60%

3553

06/72/17 PER VILLAGE REVIEW
06/07/17 REVISED PER REGIONAL STORMS
03/15/17 REVISED PER VILLAGE REVIEW
10/07/16 REVISED PER VILLAGE REVIEW

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KEY MAP

UTILITY CROSSINGS

9 ST OVER WM

9 B/P ST = 888.10

T/P WM = 886.10

LOWER WM

SEE SHEET 17 FOR CONTINUATION

116'-18" ST -AT 0.40% (100 YEAR)

126'-15" ST AT 0.50%-(100 YEAR)

G 891.10 5 887.22 N 886.97

NOTE: WATER AND SEWER CROSSINGS SHALL MEET IEPA SEPARATION AND PIPE MATERIAL REQUIREMENTS. (SEE DETAIL SHEET)

- W 1+60, L \simeq 1.5" TYPE K WATER SERVICE, LOCATION, L \simeq LONG SERVICE
- ST 1+48, S = 4" PVC STORM SERVICE, LOCATION, S = SHORT SERVICE
- ALL ROADWAY DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
- DEPRESS CURB & GUTTER AT ALL SIDEWALK AND PATH LOCATIONS FOR HANDICAP ACCESS AS PER FEDERAL AND STATE STANDARDS
- ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2 00% OR LESS.

- WATER AND SEWER CROSSINGS SHALL MEET STATE EPA SEPARATION AND PIPE MATERIAL
- STATE EPA SÉPARATION AND PIPE MATERIAL REQUIREMENTS (SEE DETAIL SHEET) CONTRACTOR MAY DÉPLECT WATER MAIN PIPE UNFORMLY UNDER SEWERS WITHOUT USING PITTINGS, PROMISED THE ALLOWABLE LIMIT CONTRACTION DOES NOT EXCELT THE ALLOWABLE LIMIT CATOR WHITE AND SEWER CONSTRUCTION IN LLUNGS. OR BY THE PIPE MANUFACTURER, IF STITINGS, ARE USED, CONTINUOUS STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS BELOW MORMAL WATER MAN DEPTH ARE REQUIRED, OR RETAINER GLANDS MAY BE USED IN LIEU OF STRAPPING.
- STRAPPING.

 HIM ELEVATIONS GIVEN FOR STORM SEWER
 STRUCTURES IN CURB LINE ARE TOP OF CURB
 ELEVATIONS. ALL STRUCTURES IN CURB LINE
 SHALL HAVE CURB TYPE FRAME & GRATE.
- DRIVEWAY LOCATION ARE APPROXIMATE AND ARE NOT TO BE USED FOR LAYOUT OF CURB DEPRESSIONS.
- ALL ROAD ELEVATIONS SHOWN ARE TOP OF CURB UNLESS NOTED.
- JALL STRUCTURES (MH, CB, INL, V.V., HYD., STREET LIGHTS) ARE TO BE LOCATED ON THE PROPERTY LIME EXTENDED AND ARE TO BE OFFSET FROM THE CENTERLINE AS SHOWN ON THE TYPICAL ROAD SECTION DETAIL UNLESS OTHERWISE NOTED.
- ALL SIDEWALKS ARE TO BE 5 FT. WIDE AND PLACED ONE FOOT OFF PROPERTY LINE.
- PEANED UNE FOUT OF PROPERTY LINE,

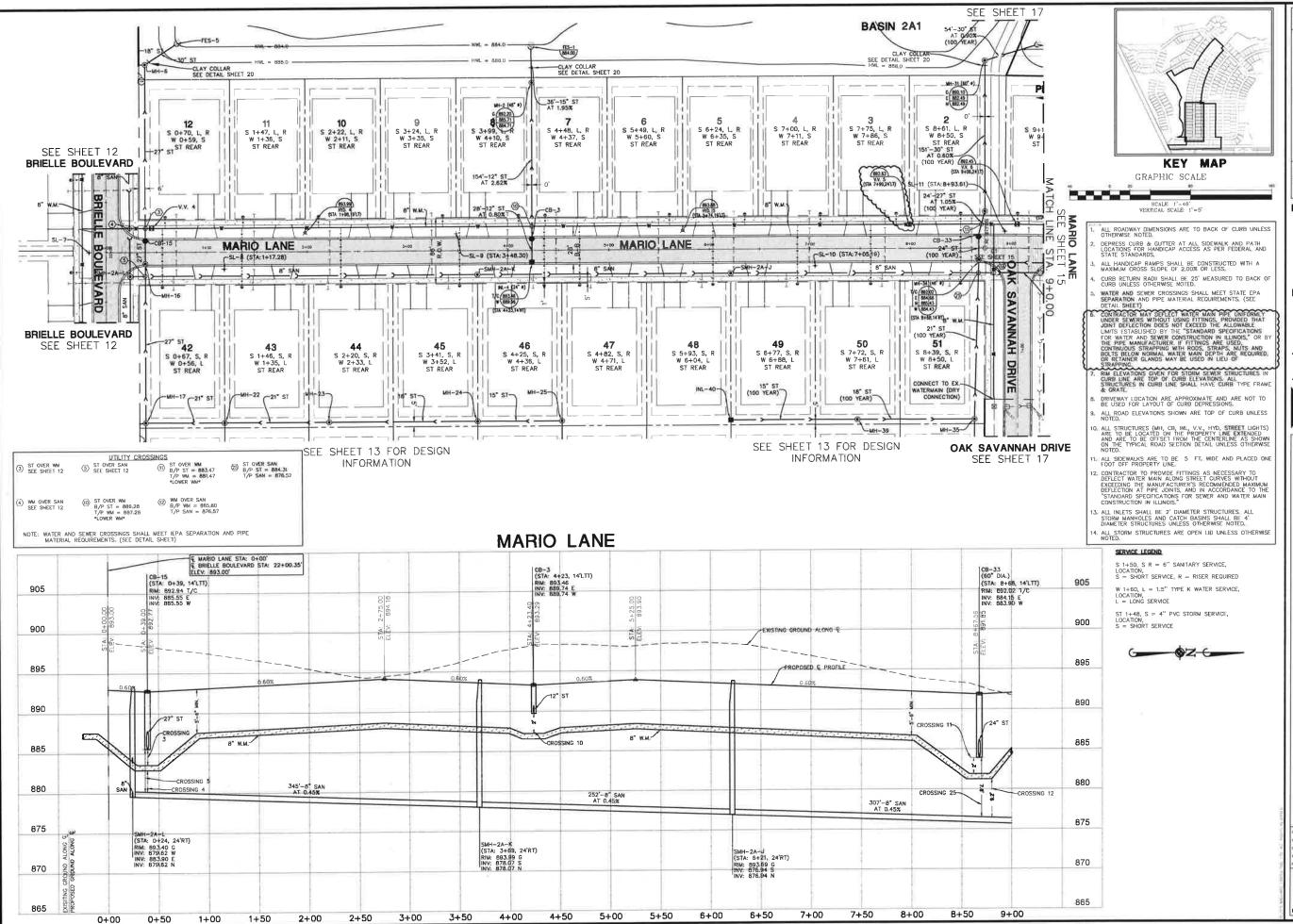
 2. CONTRACTOR TO PROMPE FITTINGS AS NECESSARY TO DEFLECT WATER MAIN ALONG STREET CURRUES WITHOUT EXCEEDING THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION AT PIPE JOINTS, AND IN ACCORDANCE TO THE "STANDARD SPECIFICATIONS FOR SEMER AND WATER MAIN CONSTRUCTION IN
- 3. ALL INLETS SHALL BE 2' DIAMETER STRUCTURES. ALL STORM MANHOLES AND CATCH BASINS SHALL BE 4' DIAMETER STRUCTURES UNLESS OTHERWISE NOTED,
- . ALL STORM STRUCTURES ARE OPEN LIDS UNLESS OTHERWISE NOTED

CONSERVANCY - NEIGHBORHOOD 2A VILLAGE OF GILBERTS, ILLINOIS THE

> PHOU MOR. JPD DATE 07/22/16 H1"-40" V.1"-5

SHEET **13 ∘ 23** GDL.GIIL.01

SUNBURST LANE - PLAN & PROFILE STA. 0+00 - 8+73.88



PER VILLAGE REVEWS
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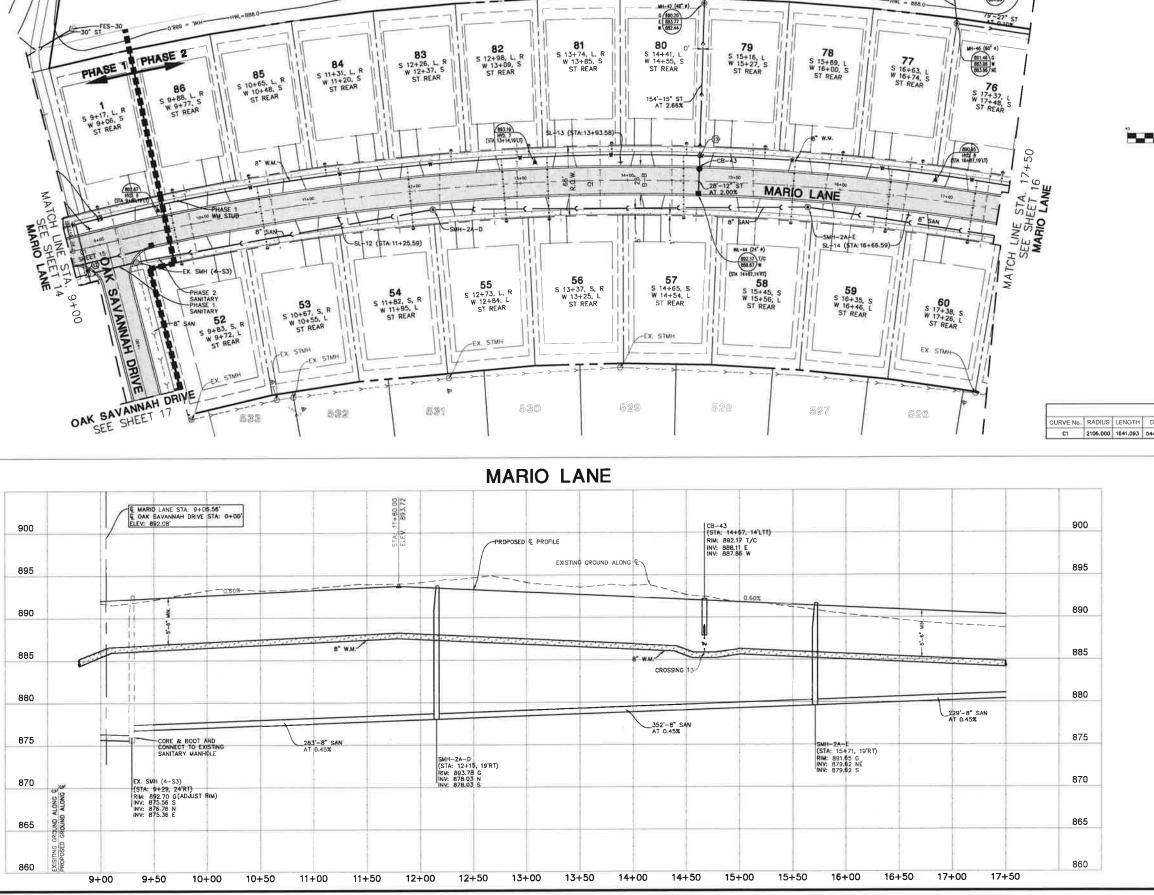
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2A THE CONSERVANCY - NEIGHBORHOOD

MARIO LANE - PLAN & PROFILE STA. 0+00 - 9+00 VILLAGE OF GILBERTS, ILLINOIS

PROJ MOR. JPD

SHEET **14 23** GDLGIIL01



CLAY COLLAR SEE DETAIL SHEET 20

BASIN 2A1

124" ST



GRAPHIC SCALE SCALE: 1"=40" VERTICAL SCALE: 1"=5"

> UTILITY CROSSINGS 3) ST OVER WM B/P ST = 887.38 T/P WM = 885.38 *LOWER WM*

SERVICE LEGEND

- S 1+50, S R = 6" SANITARY SERVICE, LOCATION, S = SHORT SERVICE, R = RISER REQUIRED
- W 1+60, L = 1.5" TYPE K WATER SERVICE, LOCATION, L = LONG SERVICE
- ST 1+48, S = 4" PVC STORM SERVICE, LOCATION, S = SHORT SERVICE

			CURVE	TABLE			
CURVE No.	RADIUS	LENGTH	DELTA	CHORD	TANGENT	PC STA	PT STA
C1	2106.000	1641.093	044'38'51"	1599.886	864.754	8+73.88	25+14.97

- ALL ROADWAY DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
- DEPRESS CURB & GUTTER AT ALL SIDEWALK AND PATH LOCATIONS FOR HANDICAP ACCESS AS PER FEDERAL AND STATE STANDARDS.
- ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
- CURB RETURN RADII SHALL BE 25' MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.
- WATER AND SEWER CROSSINGS SHALL MEET STATE EPA SEPARATION AND PIPE MATERIAL REQUIREMENT (SEE DETAIL SHEET)
- (SEE DETAIL SHEET)
 CONTRACTOR MAY BEND WATER MAIN PIPE UNIFORML'
 UNDER SEWERS WITHOUT USING FITTINGS, PROVIDED
 THAT JOHN DEFLECTION DOES NOT EXCEED THE
 ALLOWABLE LIMITS ESTABLISHED BY THE "STANDARD
 SPECIFICATIONS FOR WATER AND SEWER
 CONSTRUCTION IN ILLINOIS," OR BY THE PIPE
 MANUFACTURER, IF FITTINGS ARE USED, CONTINUOUS
 STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS
 OF RETAINER UNATE MANUFETH ARE REQUIRED,
 STRAPPING, OF MAINS MAY BE USED IN LIEU OF
 STRAPPING.
- RIM ELEVATIONS GIVEN FOR STORM SEWER STRUCTURES IN CURB LINE ARE TOP OF CURB ELEVATIONS, ALL STRUCTURES IN CURB LINE SHALL HAVE CURB TYPE FRAME & GRATE.
- DRIVEWAY LOCATION AREA APPROXIMATE AND AREA NOT TO BE USED FOR LAYOUT OF CURB DEPRESSION
- ALL ROAD ELEVATIONS SHOWN ARE TOP OF CURB UNLESS NOTED
- O, ALL STRUCTURES (MH, CB, INL, V.V., HYD, STREET LIGHTS) ARE TO BE LOCATED ON THE PROPERTY LINE EXTENDED AND ARE TO BE OFFSET FROM THE CENTERLINE AS SHOWN ON THE TYPICAL ROAD SECTION DETAIL UNLESS OTHERWISE NOTED.
- ALL SIDEWALKS ARE TO BE 5 FT. WIDE AND PLACED ONE FOOT OFF PROPERTY LINE
- CONTRACTOR TO PROVIDE FITTINGS AS NECESSARY TO DEFLECT WATER MAIN ALONG STREET CURYES WITHOU EXCEEDING THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION AT PIPE JOINTS, AND IN ACCORDANCE TO THE "STANDARD SPCCIFICATIONS FOI SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS."
- 3. ALL INLETS SHALL BE 2' DIAMETER STRUCTURES, ALI STORM MANHOLES AND CATCH BASINS SHALL BE 4' DIAMETER STRUCTURES UNLESS OTHERWISE NOTED
- 4. ALL STORM STRUCTURES ARE OPEN LID UNLESS OTHERWISE NOTED.

36/22/17 PER VILLAGE REVEN 30/13/17 REVEST PRESTONAL STORWATER PLAN 30/13/17 REVEST PER VILLAGE REVEN 30/13/17 REVEST PER VILLAGE REVEN 11/17/18 REVEST PER VILLAGE REVEN

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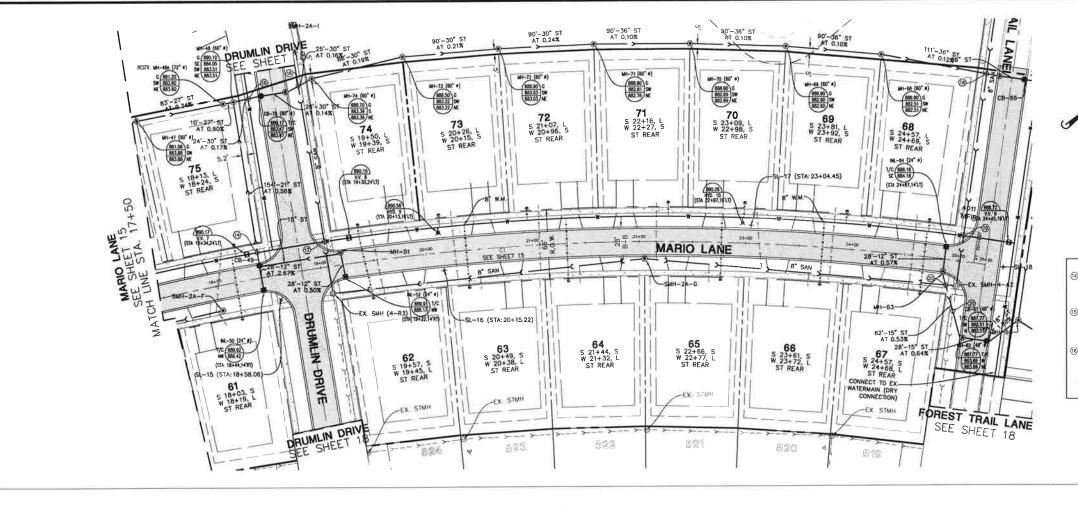
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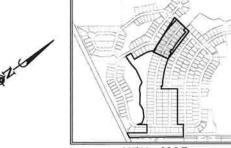
MARIO LANE - PLAN & PROFILE STA, 9+00 -17+50 VILLAGE OF GILBERTS, ILLINOIS

THE CONSERVANCY - NEIGHBORHOOD

PROJ. MOR. JPD DEMANUE NCL DATE 07/22/16

SHEET **15 □ 23** GDL.GIIL.01





KEY MAP

GRAPHIC SCALE VERTICAL SCALE: 1"=5

UTILITY CROSSINGS

WM OVER SAN
B/P WM = 883,44
T/P SAN = 879,69

(IB) ST OVER SAN SEE SHEET 18

20 ST OVER SAN B/P ST = 883.75 T/P SAN = 881.4

(21) ST OVER SAN B/P ST = 883.61 T/P SAN = 879.16

(9) WM OVER SAN B/P WM = 882.27 T/P SAN = 879.74

NOTE: WATER AND SEWER CROSSINGS SHALL MEET IEPA SEPARATION AND PIPE MATERIAL REQUIREMENTS, (SEE DETAIL SHEET)

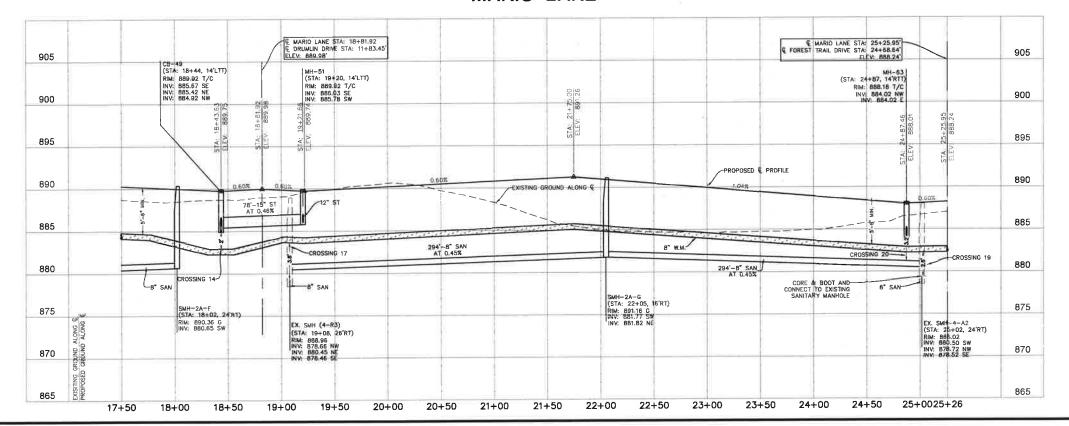
SERVICE LEGEND

S 1+50, S $R=6^{\prime\prime}$ SANITARY SERVICE, LOCATION, S = SHORT SERVICE, R=RISER REQUIRED

W 1+60, L = 1.5" TYPE K WATER SERVICE, LOCATION, L = LONG SERVICE

ST 1+48, S = 4" PVC STORM SERVICE, LOCATION, S = SHORT SERVICE

MARIO LANE



- ALL ROADWAY DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
- ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS
- CURB RETURN RADII SHALL BE 25' MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.

DURB NETURN RADII SHALL BE 25 MEASURED TO BACK OF CURB UNLESS OTHERWISE NOTED.

WATER AND SEWER CROSSINGS SHALL MEET STATE FPA SEPARATION AND PIPE MATERIAR REQUIREMENTS.

(SEE DETAIL SHEET)

CONTRACTOR MAY DEFLECT WATER MAIN PIPE UNIFORMLY UNDER SEWERS MITHOUT USING FITTINGS, PROMOBED THAT JUNNT DEFLECTION DOES NOT EXCEED THE ALLOWABLE LIMITS ESTABLISHED BY THE ACCEPT THAT JUNNT DEFLECTION OF BY THE PIPE STANDARDS SPECHFACTIONS FOR WATER AND SEWER CONSTRUCTION IN LLINOSS, OR BY THE PIPE TO STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS STRAPPING WITH RODS, STRAPS, NUTS AND BOLTS BELOW NORMAL WATER MAIN DEPTH ARE REQUIRED, OR RETAINER CLANDS MAY BE USED IN LIEU OF STRAPPING.

RIM ELEVATIONS GIVEN FOR STORM SEWER STRUCTURES IN CURB LINE ARE TOP OF CURB LEVATIONS. ALL STRUCTURES IN CURB LINE SHALL HAVE CURB TYPE FRAME & GRATE.

- DRIVEWAY LOCATION ARE APPROXIMATE AND AREA NOT TO BE USED FOR LAYOUT OF CURB DEPRESSIC ALL ROAD ELEVATIONS SHOWN ARE TOP OF CURB UNILESS NOTED.
- ALL STRUCTURES (MH, CB, INL, V.W., HYD, STREET UIGHTS) ARE TO BE LOCATED ON THE PROPERTY LINE EXTENSED AND ARE TO BE OFFSET FROM THE CENTERLINE AS SHOWN ON THE TYPICAL ROAD SECTION DETAIL UNLESS OTHERWISE NOTED.
- ALL SIDEWALKS ARE TO BE $\,5\,$ FT. WIDE AND PLACED ONE FOOT OFF PROPERTY LINE.
- ONE FOUT OF PROPERTY LINES AS NECESSARY TO DEFLECT WATER MAIN ALONG STREET CURVES WITHOUT EXCEENING THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION AT PIPE JOINTS, AND IN ACCORDANCE TO THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS."
- ALL INLETS SHALL BE 2' DIAMETER STRUCTURES ALL STORM MANHOLES AND CATCH BASINS SHALL BE 4' DIAMETER STRUCTURES UNLESS OTHERWISE NOTED.
- ALL STORM STRUCTURES ARE OPEN LID UNLESS OTHERWISE NOTED

THE CONSERVANCY - NEIGHBORHOOD GILBERTS, ILLINOIS VILLAGE OF

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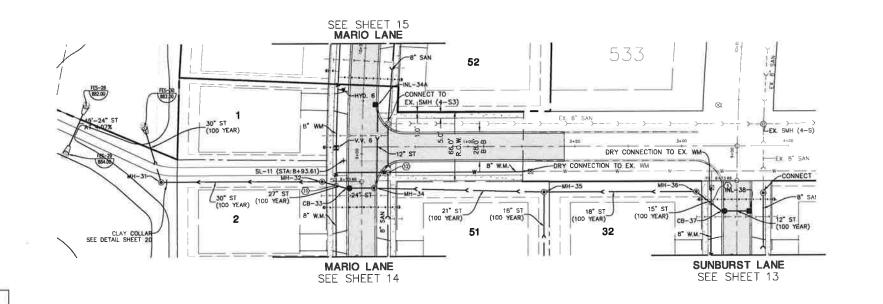
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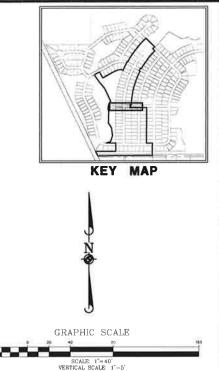
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HY-10 21-5 SHEET **16**°23 GDL-GIIL-01

MARIO LANE - PLAN & PROFILE STA, 17+50 - 25+





SERVICE LEGEND

S 1+50, S R = 6" SANITARY SERVICE, LOCATION, S = SHORT SERVICE, R = RISER REQUIRED

W 1+60, L = 1.5" TYPE K WATER SERVICE, LOCATION, L = LONG SERVICE

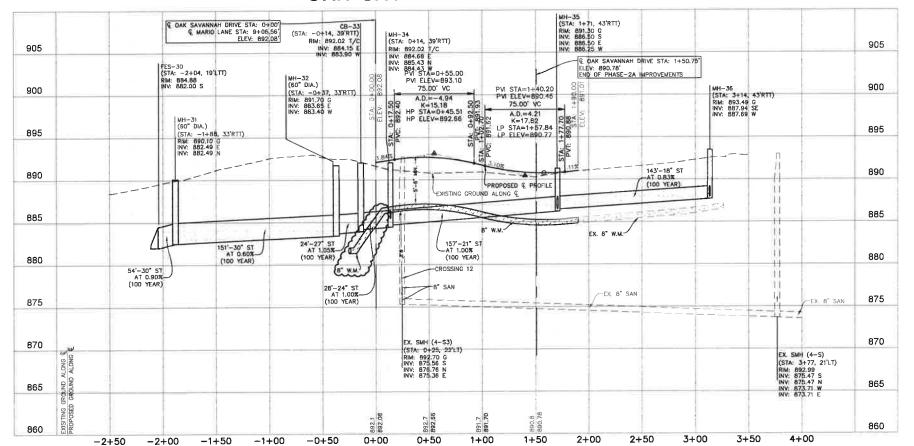
ST 1+48, S = 4" PVC STORM SERVICE, LOCATION, S = SHORT SERVICE

OAK SAVANNAH DRIVE

UTILITY CROSSINGS

NOTE: WATER AND SEWER CROSSINGS SHALL MEET IEPA SEPARATION AND PIPE MATERIAL REQUIREMENTS, (SEE DETAIL SHEET)

12) WM OVER SAN SEE SHEET 14



- 1 ALL ROADWAY DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED
- 2 DEPRESS CURB & GUTTER AT ALL SIDEWALK AND PATH LOCATIONS FOR HANDICAP ACCESS AS PER FEDERAL AND STATE STANDARDS
- 3. ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
- 4. CURB RETURN RADII SHALL BE 25' MEASURED
- 5. WATER AND SEWER CROSSINGS SHALL MEET STATE EPA SEPARATION AND PIPE MATERIAL
- REQUIREMENTS. (SEE DE TAIL SWEET)

 O. CONTRACTOR MAY DEFLECT WATER MANE PIPE
 UNIFORMLY UNDER SEWERS WITHOUT USING
 FITTINGS, PROVIDED THAT JOINT DEFLECTION
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 WITH ROOS, STRAPPS, NUTS AND BOLTS BELOW
 NORMAL WATER MAIN DEPTH ARE REQUIRED, O
 RETAINER GLANDS MAY BE USED IN LIEU OF
 STRAPPING.
- 7. RIM ELEVATIONS GIVEN FOR STORM SEWER STRUCTURES IN CURB LINE ARE TOP OF C ELEVATIONS. ALL STRUCTURES IN CURB LIN SHALL HAVE CURB TYPE FRAME & GRATE
- DRIVEWAY LOCATION AREA APPROXIMATE AND ARE NOT TO BE USED FOR LAYOUT OF CURB DEPRESIONS.

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- 9. ALL ROAD ELEVATIONS SHOWN ARE TOP OF CURE
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 ALL STRUCTURES (MH, CB, INL, V.V., HYD.

 STREET LIGHTS) ARE TO BE LOCATED ON THE

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 OFFSET FROM THE CENTERLINE AS SHOWN ON

 THE TYPICAL ROAD SECTION DETAIL UNLESS

 OTHERWISE NOTED.
- 11. ALL SIDEWALKS ARE TO BE 5 FT. WIDE AND PLACED ONE FOOT OFF PROPERTY LINE.
- 12. CONTRACTOR TO PROVIDE FITTINGS AS NECESSARY TO DEFLECT WATER MAIN ALONG STREET CURVES WITHOUT EXCEEDING THE MANUFACTURER'S RECOMMENDED MAXIMUM DEFLECTION AT PIPE JOINTS, AND IN ACCORDANCE TO THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS,"
- 13. ALL INLETS SHALL BE 2' DIAMETER STRUCTURES. ALL STORM MANHOLES AND CATCH BASINS SHALL BE 4' DIAMETER STRUCTURES UNLESS OTHERWISE NOTEO.
- ALL STORM STRUCTURES ARE OPEN LID UNLESS OTHERWISE NOTED.

CONSULTING

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HE CONSERVANCY - NEIGHBORHOOD 2
VILLAGE OF GILBERTS, ILLINOIS
OAK SAVANNAH DR - PLAN & PROFILE

2A

VILLA

PROJ MGR: JPD

PROJ MSEOC: JRH

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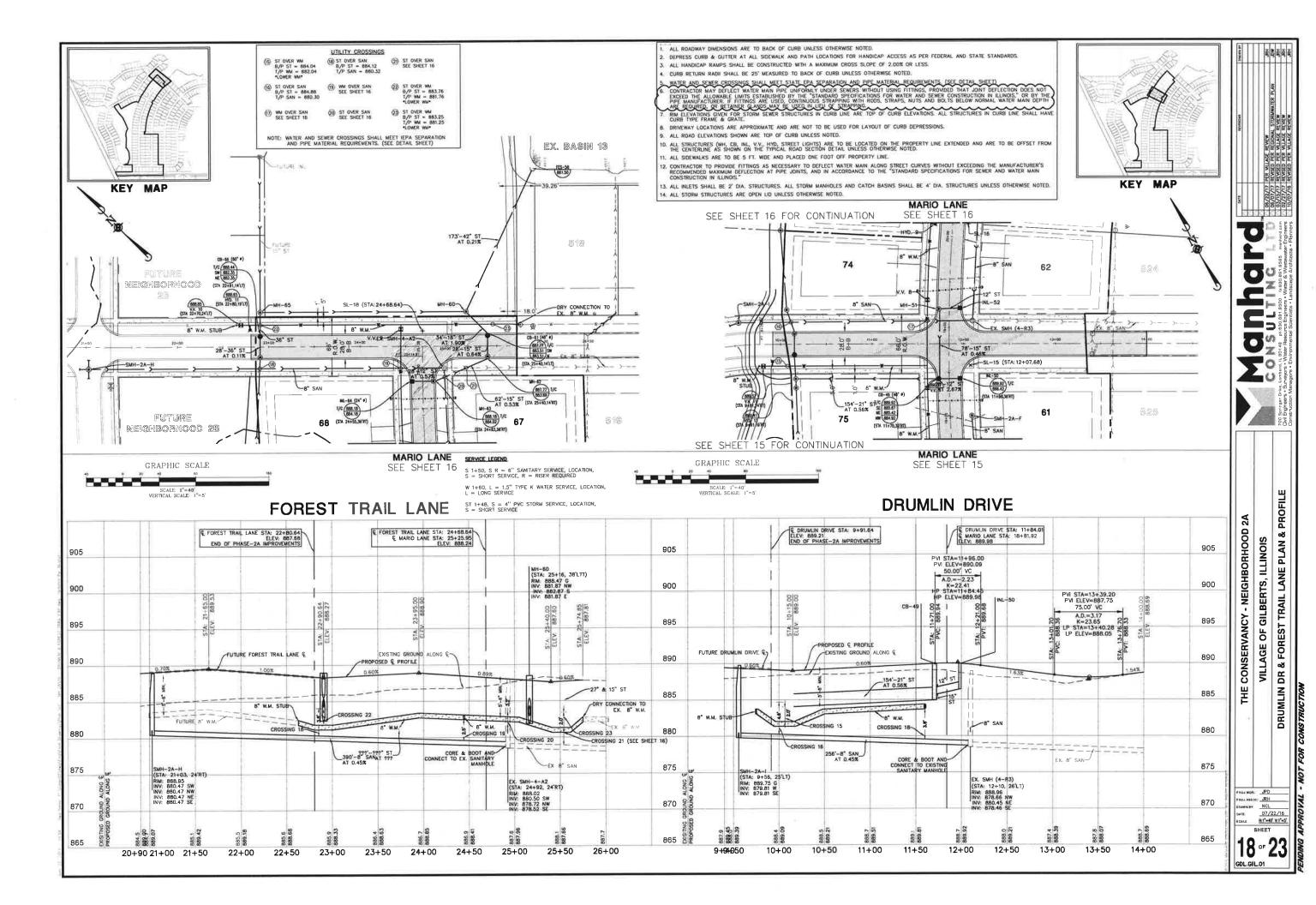
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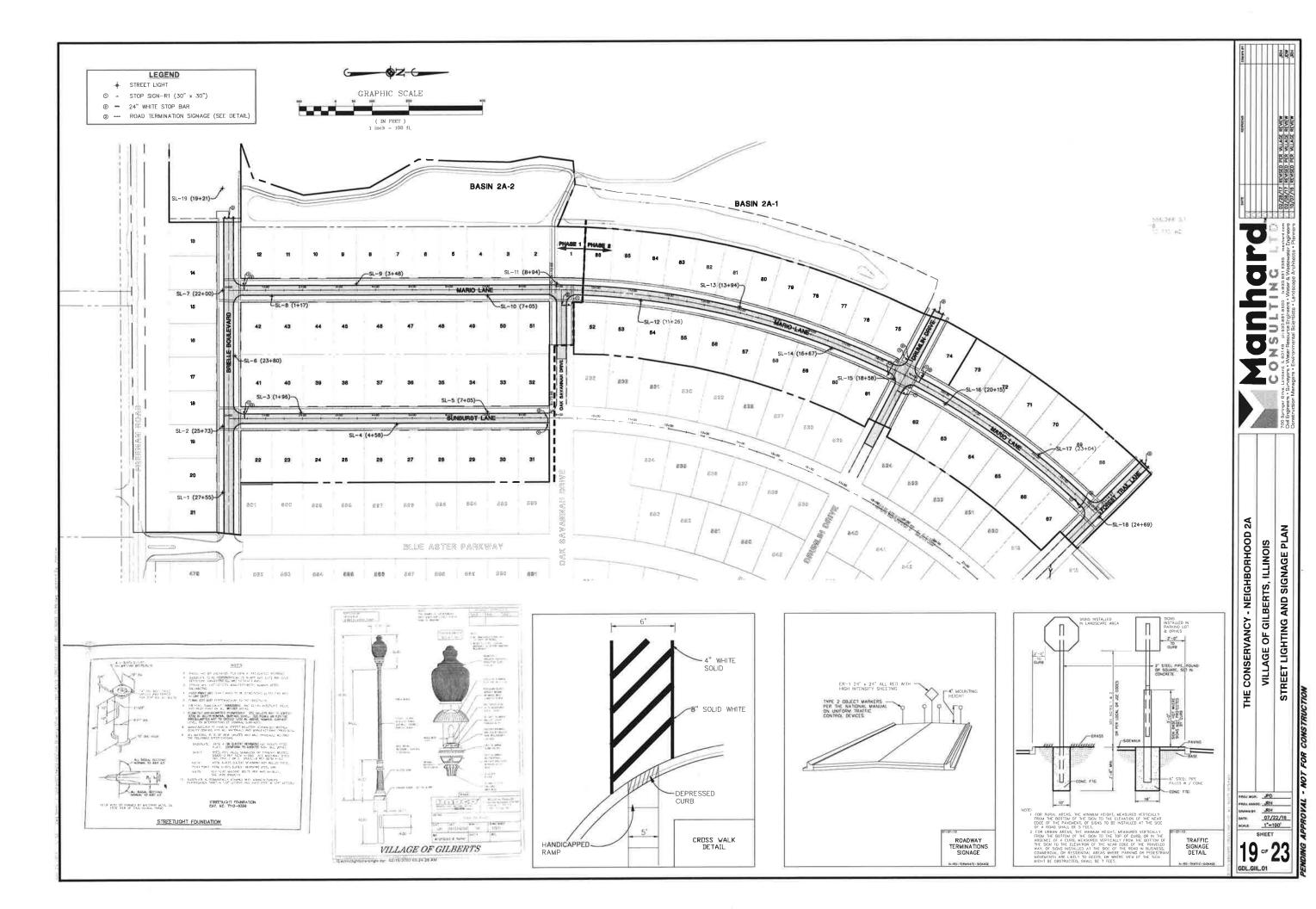
DATE 07/22/15

SCALE #1"-40" #1"-5"

SHEET 17 OF 23

APPROVAL - NOT FOR CONSTRUCTION





STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION.

41-2.01 PROTECTION OF WATER MAIN AND WATER SERVICE LINES

41-2.01A GENERAL

41-2.018 HORIZONTAL SEPARATION - WATER MAINS AND SEWERS

- (1) Water mains shall be located at least ten (10) feet (3,1 m) horizontall from any existing or proposed drain, storm sewer, sanitary sewer, comb sewer at sewer service connection
- (2.) Water mains may be located closer than len (10) feet (3.1 m) to a sewer line when:
 - (a) local conditions prevent a lateral separation of ten (10) leet (3,1 m);
 - (b) the water main invert is at least eighteen (18) inches (460 mm) above the crown of the sewer; and
 - (c) the water main is either in a separate trench or in the same trench on an undisturbed earth shelf located to one side of the sewer.
- (3.) When it is impossible to meet (1) or (2) above, both the water main and drain or sewer shall be constructed of slip-on or mechanical joint cast or ducille iron pipe, prepriessed concerte pipe, or PVC pipe equivalent to water man standards of construction. The drain or sewer shall be pressure tested to the makingum expected surcharge head before backfilling. See Standard Drawing No. 18.

VILLAGE OF GILBERTS

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TOTAL PROPERTY.

PROVIDE SELECT GRAPHICAR BASEFILL DATE TO SUBSPACE WHEN IN PAYES AREAS

L AND INTERIOR COURTS SHAPE BE CHESSED WITH MON-SHAPING MAPPEL

4"-8" MANYEL SHAPE BE IN A DEMANTER PARTY TO AND LANGER MANYES SHAPE
BE 115" 1-12,75"

VALVE VAULT

Edge Steam

AMERICAN SCHOOLS

WATER AND SEWER SEPARATION REQUIREMENTS (HORIZONTAL SEPARATION)

PROJECT AT ALL MARKET

STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, LATEST EDITION.

41-2.01C VERTICAL SEPARATION - WATER MAINS AND SEWERS

- A water main shall be separated from a sewer so that its invert is a minimum of eighteen (18) inches (460mm) above the crown of the dr
- (a) it is impossible to obtain the proper vertical separation as described in (1) obove; or
- (b) the water main passes under a sewer or drain
- (1) CASING OF EITHER THE WATER MAIN OR SEWER PIPE IS ACCEPTABLE IN LIEU OF PLACING THE SEWER IN WATER MAIN EQUIVALENT PIPE
- COUNTERN THE CAN BE CONSTRUCTED WITH PENFORCED CONCRETE PIPE USING FLEXIBLE GASKETS JOINTS, (ASTM C.361 C443) INSTEAD OF CONSTRUCTION THE STORM SEWER WITH WATER MAN EQUIVALENT PIPE OR CASING PIPE
- A vertical separation of eighteen (18) inches (460 mm) between the invert of the sewer or drain and the crown of the vater main shall be maintained where a water main crosses under a sewer. Support the sewer or drain inset to prevent settling and preaking the main, as shown on the Plans or as approved by the EKOHECER.

VILLAGE OF GILBERTS See 12 to 1987 / June 1989 count 1921 to

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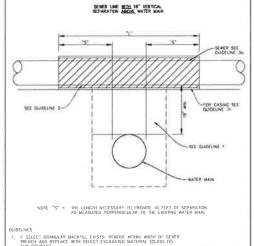
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TYPICAL HYDRANT INSTALLATION

Short a

WHITE PROPERTY.

WATER AND SEWER SHIP-SEP-VENCES



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IF SELECT GRANULAR BACKFEL EMSTS FREMOW.

BERIOH AND BEPLACE WITH SELECT EXCAVATED MATERIAL (CLASS ***)

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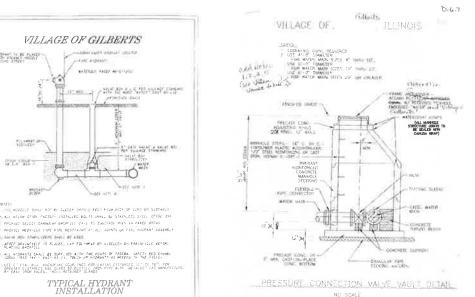
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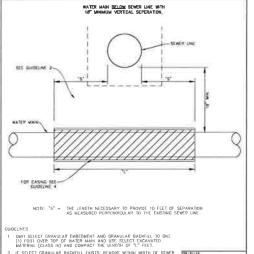
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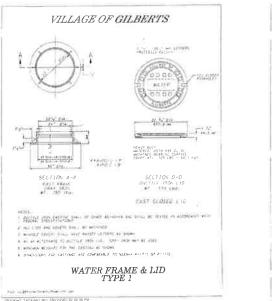


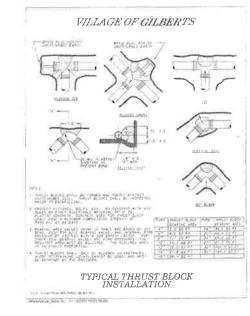


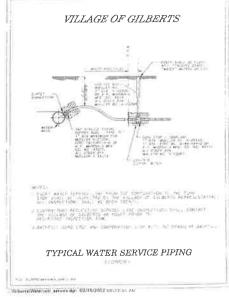
IF SCLECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF SEWER LINE TRENCH AND REPLACE WITH SELECT SCLECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT. PROVIDE ADEQUATE SUPPORT FOR SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT

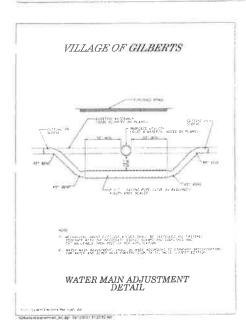
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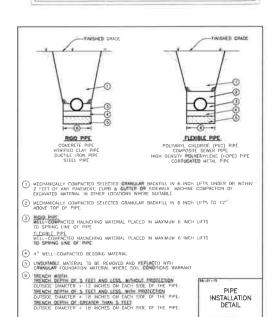
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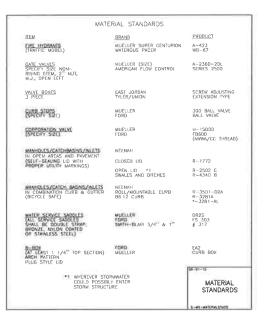


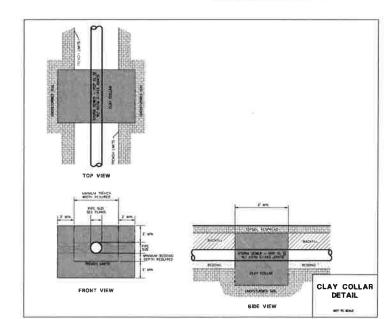


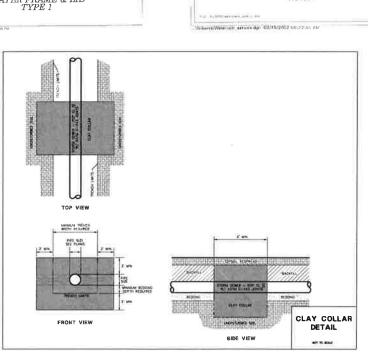












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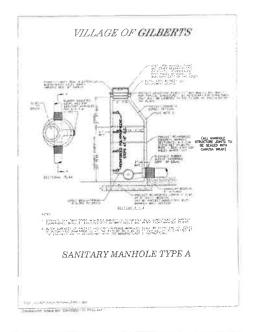
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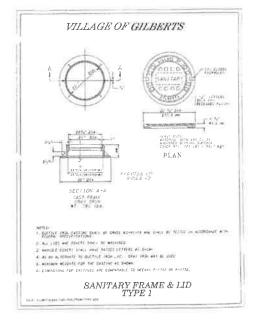
CONSERVANCY - NEIGHBORHOOD GILBERTS, ILLINOIS DETAILS VILLAGE OF GILBERTS
CONSTRUCTION D 뿚

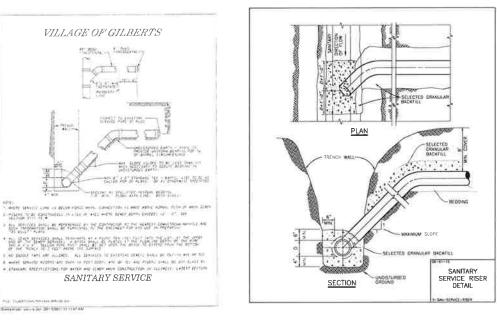
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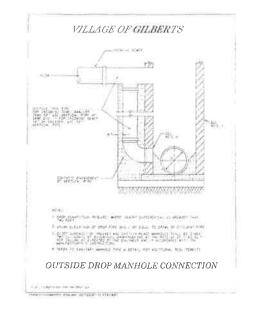
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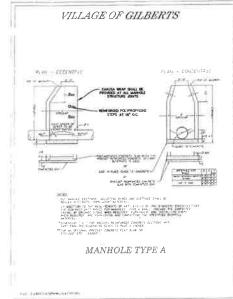
SHEET 23

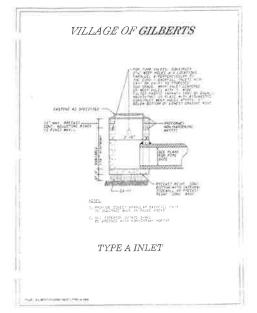


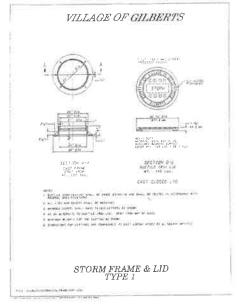


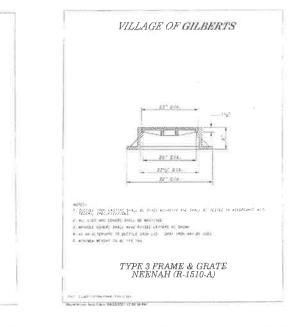


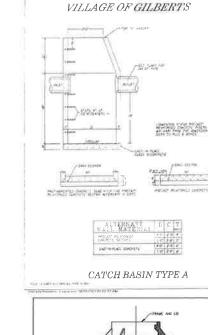


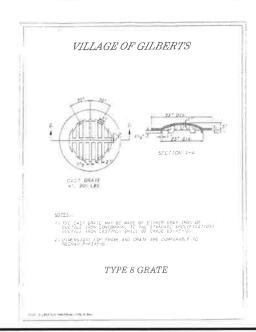


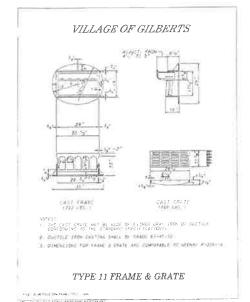


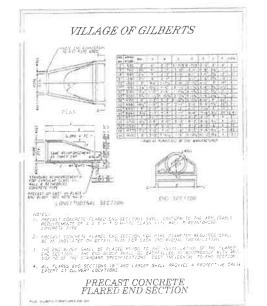


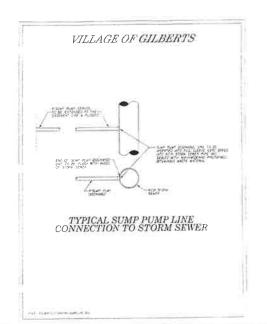


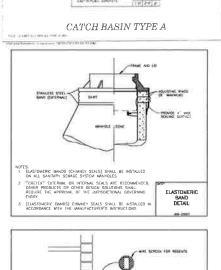


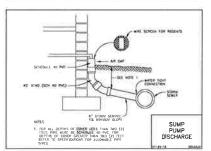










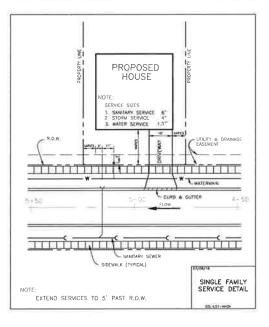


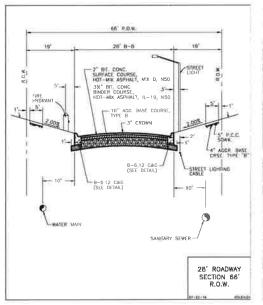


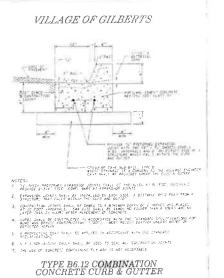
CONSERVANCY - NEIGHBORHOOD 2A VILLAGE OF GILBERTS, ILLINOIS
CONSTRUCTION DETAILS 표

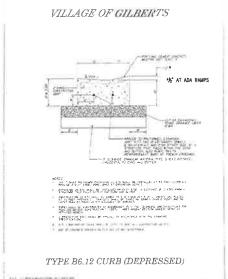
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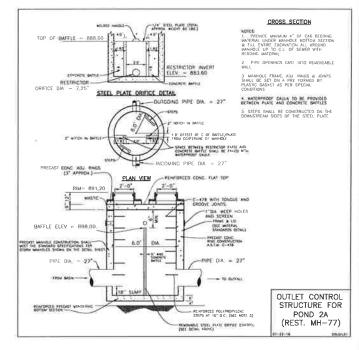
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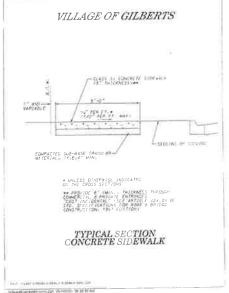


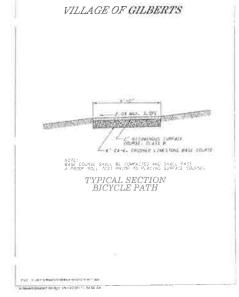


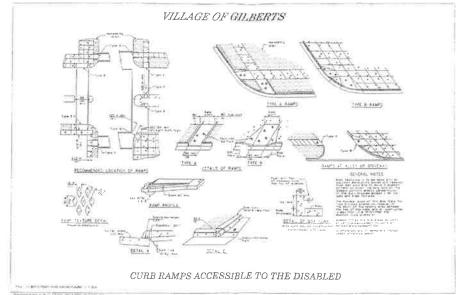


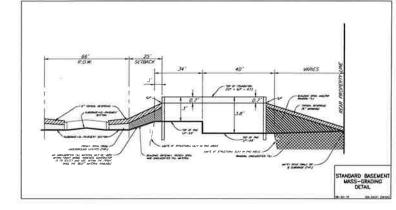






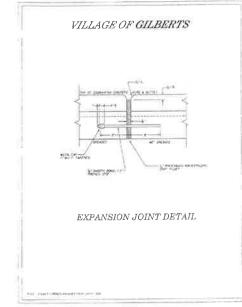






			R	IP-R	AP				
PIPE		STON	E RIP-	-RAP				BEDDING	
(IN)	QUALITY DESIGNATION	GRADATION MUNICIPAL RR	THICKNESS (N.)	LENGTH (FT.)	WEIGHT RANGE (#)	WEIGHT AVERAGE (F)	SIZE AVERAGE (IN)	MINIMUM THICKNESS (IN)	
12"	В	3	8"	4"	1-50	10	4.5"	N/A	
15"	В	3	8"	5	1-50	10	4.5"	N/A	
18"	В	4	16"	6'	1-150	40	7"	6"	
21"	В	4	16"	7'	1-150	40	7**	6**	
24"	В	4	16"	8'	1-150	40	7"	6**	
27''	В	4	16"	9'	1-150	40	7"	6**	
30"	В	4	16"	10'	1-150	40	7"	6**	
36"	В	5	22"	12'	3-400	90	10"	8**	
42"	В	5	22"	14'	3-400	90	10"	8**	
48**	В	6	26"	16'	6-600	170	12"	10"	
54"	В	6	26"	18*	6-800	170	12*	10"	
60"	В	6	26"	20'	6-600	170	12"	10"	
72"	В	6	26''	24'	6-600	170	12**	10"	

1 FOR PIPE LARGER THAN 72" A SPECIAL DESIGN OF RIP—RAP OR APRON IS REQUIRED 2 REFER TO LD.O.T. SPECIFICATIONS AND STANDARDS FOR BEDDING GRADITON.



VILLAGE OF GILBERTS	
THE RESIDENCE OF THE PARTY AND A STATE OF THE	
EXPANSION JOINT DETAIL	

31 ×			_	
	SUBDIVISION AND DEVELOPMENT CODE	EXHATA		
	VILLAGE OF DILBERTS_IL	#apo 1 of (4)	SUBDIVIS VILLAGE	FOR AND DEVELOPMENT CODE OF GILBERTS III.
	EXCE		All: 107	STREEGAROWS WATER REPLACES
	FESTS AND INSPECT REQUIRED DURING OF THE PUBLIC!	G CONSTRUCTION	The conducted	: following water service tests are re- in the presence of the Engineer for the
	A.G. TESTUROGRAPHIC PUBLIC STILLS	rtii	Α.	bacteriological test of water samples
	suppliesded presid service	are required and must be certified by an	8	twenty-four (74) hours
	PROTORUM ACCUMANTAL	SUBJYMON CHROCHER, Mean shall be 200 foot the sea to confirm proper on with the standards for mean construction		STS REGARDING SANITARY SEWER
	ant forth in this Code	the transfer of the latest constitution	The be conduct	lotering sandary sever service tests a and in the presence of the Engineer for I
	af all the performed all ma	aggregatio Alater dictural danigardium basis servium 200 fod adequate bi combine position of artis the Mahillette for alleser preschipping	A	Leakage text of complaint survivery s Village).
		ducted in the presence of the Engineer la-	0	T/ fashing of sandary seems with the in the presence of Engineer for the V
	1 After the forestern of	d-been surgedon being has been	С	Mandrei Test of Newbio pape
	stategreens, send, proof to	the line to treggrig aggregate base broad	D	Ar Test (in presence of Engineer for CF24 (for correlate pape) or ASTM C1
	2 After the expression of the till and the	has been prepared as notaled in	A-04 188	TE RESURDING SIDEWALKS. PUBLIC
	figure in the base that be sug-	of the Engineer for the Visigo show a list, replaced and remoted group had legs for the Village. At the colours of delevation	what	following: Profitional connect concludes by the controlled or presents of Engineer (#, #, #, enquerosteros
	satisfactory proof not best results	Overaging below that he imposed if target he without	A.	Certific compressor tresperators (Files op-
	D If at the appropriate the Empreor print a significant forms of print by the Ethiox department of the	for the Vinge more are stranged which where failure, is drauden tests, as specified		Compaction tests of becalld meteral whom directed at seess where storm a
		there were a resident to the first to the		At and stump their man be and advanced and public wind in entertain

	The following water service tests are required and effect indeed in the presence of the Engineer for the Village.
	A Gasteriological literal of water samples taken from completed v
1	8 Water must present tool in present of Course to the discretization for the (2) hours and at standard specifical hearty-four (74) hours.
A.03	TESTS REGARDING SANITARY SEWER SERVICE
be cone	The following sandary news service tests are raquired and where a sucked in the presence of the Engineer for the Village.
,	 Lookage text of complaint sentary sever (in presence of En Vitage).
(TV testing of sandary amor with the results recorded on a in the presence of Engineer for the Village.
0	Mandrei Tasi of Newbio pape
ľ	Ar Test (in presence of Engineer for the Wilege) is accordance GF24 (for somerate pape) or ASTM C14 (for plants pape.)
A.O. 1	ESTE PROMERC DOSWALKS. FUELC WATE, CORES AND C
	the following: Professor consent controls bells are request and wheal the emissional or presence of Engineer to the oblige and a strict E.F.A. engineerance.
	Certifical compression from of the sylvatory
	Compaction tests of bacaliti material behind the curb shall be when directed at seaso where atoms sewer inlat is located.
¢	A and stump high road by premind to surrough our supervals and public large in expension with EOT supplied
b	Drestly testing must be performed and submised for explicit
39164-1	
CALL HO	A STRUME WHEN THE PERSON

SAMPS AT ALLEY ON CHOICES. SERVICES AND SER	SE STREET SETTING SETING SET	AD TO SHARE THE STANDARD BASEMENT WAS - CRAINED TO STANDARD BASEMENT WAS - CRAINED GOT AM.
DISABLED		
AND DEVILOPMENT CODE SOMET A	SUBDY/PROXAND DEVELOPMENT CODE EXHIBIT A	SURDIVISION AND DEVISIONMENT CODE SURDIVISION AND DEVISION AND D
AND DEVELOPMENT CODE EXHIBIT A REBERTS IL Page 2 M 1	VILLAGE OF GILBERTS. IL Page 3 of (4)	VILLAGE OF CILIERTS IL Page 1 (FU)
oming whiter service tests are required and where indicated shall be to presence of the Engines for the Village	partormed and subhivated in accordance with 'DOT specifications accord- as noted.	Finquency of leafs and percentage of compaction ehalf be to in opportunce with IDCI standards
apparticle; grad for of verse sain place Lakons (non completed watter mains	Acc. NOTICE TO ENGINEER FOR THE VILLAGE	
and the second of the second o	Whomever learning a recovered by the orbitanton in the policitime of the presence of the Engineer for the Young, demands and the Engineer of the Section of the Engineer (Feb.) hours within at this Engineer of the time such tests are but administ to the Engineer of the time such tests are but demanded to take place. If such notices to not previous reposition of the opposition of	
IEGARDING SANITARY SEWER SERVICE	A 66 DELAWER OF TEST RESULTS TO ENGINEER FOR the VILLAGE	
with lateful prevent aemoco heats are required and where indicated at as the presence of the Engineer for the Village should be not of complained sension, sewer (in presence of Engineer for the lates).	A Six Teel Report. Cuples of all not been and report regions by po- Claim and any price scale region has the demonstrated in the Engineer by the Vingo; at the region (slow of benefits of all the Vingo had an the Engineer being designed, once is presented of all the Vingo had an the Engineer being designed, once is presented on paragraphics.	
inequi, of sandary ammor with the results recorded on a cassivitie tape the presence of Engineer for the Williags.	Compandion Test Reports. Copies of all companies test reports required by the entire stress and the entire test in the financial for the VMago worse sever. (7) they a home gift care within or financial result.	
andrei Test of Neubio pape	Cethbel comprission lesi reports. Colimin of compression lesion reports required by the ordination shall be delivered in the Engineer for the Village weren server (if explication) the recognition of system less is the compression of the c	
Test (in presence of Engineer for the Wilege) in accordance with ASTM GM (for corrector pape) or ASTM C14 (for place) pape.)	required by the volume and a substantial state on our system of system for the Village within several (?) Gars, following, the completers of system for the ACC TANK PROPERTY.	
FORFORD SOWNAE. FUSILE WAYS, GUIES AND GUTTING		
mg. Portland convert contrate bests are required and where analysis of mobiles or presents of Engineer for the oblique and in accordance. A requirement	The Vitage Engineer shall discove all power paperiers, and shall pathons but interestant of the spots, expressions and nationals of the lite operating to done the number is carely, and a pulsed representative and manufact or constitution and sucplied to advantage and their literatures, and manufaction approved by the Vitage, which careful can be legalised by Selection 6 of an automatic provided by the Vitage, which careful can be legalised by Selection 6 of an accordance to the selection of the selection o	
Must correspond to the of their sylvations	Comm. of all table, impedition regards propered by the Prosent Engineer and deliming the Engineer's extensions and accordance only the Engineer's requested independent value of extension of their sections of flows which shall be depended as the real sections of their sections of those which shall be depended as the	
trinaction tests of becallst material behind thy curb shall be performed on directed at ereas where storm sever into a located	requester was and successed the data and drive of those was shall be determed a the Village on a weekly basist as public improvement work as in programs.	
and along the east to present to the process posters	If those opons discrete that an introduction number and frequency of inspection through another an interest and interest and interest and present	
nesty testing must be performed and automated for exphall priving in	is there introduce in increasive will see a contract as increasing or explaint, in histories with beautine holds for all introducts from constraint by the Visigo for importance by the Trigories Start for all introducts from constraint by the Visigo for importance by the Trigories Start for Visigo editors fundament.	
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TEACHWOOD TO STATE		

THE CONSERVANCY - NEIGHBORHOOD 2A
VILLAGE OF GILBERTS, ILLINOIS
CONSTRUCTION DETAILS PROJ. MOR. JPD PROJ. ASSOC: JRH

DRAWN BY JRH

DATE 07/22/16

BCALE: N.T.S.

GDLGIIL.01

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MANHARD CONSULTING, LTD. STANDARD SPECIFICATIONS

GENERAL CONDITIONS CO

- "ENGINEER shall mean Manhard Consulting Ltd. a Cwil Engineering consultant on the subject project
- d "CONTRACTOR" shall mean any person or entity performing any work described in the PLANS and SPECIFICATIONS

JURISDICTIONAL GOVERNMENTAL ENTITY shall mean any municipal county, state or tederal unit of government from whom an approvat, permit and/or review is required for any aspect of the subject project. INTENT OF THE PLANS AND SPECIFICATIONS

Intent OF THE PLANS AND SPECIFICATIONS

The method file In LANS AND SPECIFICATIONS is less forth contain recurrements of performance, type of equipment and silvulures, and standards of relative data of contract, but and stress of the proper recording of the work but are contained and contraction. They may also also lessly below and relaterals exagement and inergentiation measters for the proper recording of the work but are contained as the proper recording of the work but are contained as part of the work. The PLANS and SPECIFICATIONS require valential and exporters unless otherwise reducted and to require completely performance of the work in applic of omissions of specific references to any more originating and the performance of the work in applic of omissions of specific references to any more originating and the performance of the work in applic of omissions of specific references to any more originating and the performance of the work in applications of the performance of the performance of the performance of the performance of the work in applications of the performance of t

meaning shall be held to refer to such recognized standard INTERPRETATION OF PLANS AND SPECIFICATIONS

- The CLEAR ender CONTRACTOR shall printfly wood any cross or embguides in the PLANS and SPECFICATIONS to the ENCHAER Questions as to treating at PLANS and SPECFICATIONS shall be instituted shall be instituted by the ENCINEER whose decision shall be final and bridge an all put is concerned.
- The ENGINEER will provide the CLIENT with such information as may be required to show revised or additional details of construction
- Should any discrepancies or conflicts on the PLANS or SPECIFICATIONS be discovered either prior to or after ewerd of the contract. The ENGINEER's attention shall be called to the same before the work is begun thereon and the proper corrections made. Neither the CLIENT for the CONTRACTION attentions that the called to the carried or the proper corrections are contracted to the contractions of the proper contractions of the proper contractions of the proper contractions.

GOVERNING BODIES

LOCATION OF UNDERGROUND FACILITIES AND UTILITIES

INDITION OF UNDERGOODED FACILITIES AND UNITIES THE PLANS and SPECIFICATIONS include information personny to the location of evaling underground facilities and visities (including but not limite or man; sanday severs, utilizes for such as the plans and the limited of the personny the SPADIREST or appropriately before and evaluation an

UNSUITABLE SOILS

The PLANS have been preparted by the ENGINEER based on the assumption that all softs on the project are suitable to support the proposed improvement above. The CLENT or CONTRACTOR shall immediately holdy to eNGINEER if he discovers or encounters an obstruction that prevents the resimplication of the improvement according to the line and grades shown on the PLANS. PROTECTION OF TREES

wed shall be protected from damage. There shall not be removed unless requested to go so in writing by the CLEINT

NOTIFICATION OF OWNERS OF FACILITIES AND UTILITIES

The CONTRACTOR shall neity all applicable Juridactional Governmental Entates. TV pirol to beginning any construction so that said entity of company can establish adjoining of constitution proposed conditions.

TRAFFIC CONTROL

CONTRACTOR stall provide when required by any JURISDICTIONAL GOVERNMENTAL ENTITY, all signs, equipment, and personnel necessary to de lor safe and efficient faight flow in all areas where the work will interrupt, interfere or cause to change in any fain. The conditions of affect flow that add print of his commencement of any portions of the work. The CLIENT may, it has observable require the CONTRACTOR to furnish traffic control and print of his commencement of any portions of the work. The CLIENT may are the sociation foreign the CONTRACTOR to furnish traffic control as or other processor, the control and the processor of the

WORK AREA

The CONTRACTOR his agents and employees and their employees are all equipment, machinery and vehicles shall confine their work within the boundaries of the project or work wares specified by the Claim? The CONTRACTOR shall be safely shall be rate-ragic caused by him of his agents and employees and their adapment, nothing will design after project or exercise shall be required under exercise.

RESTORATION

RESTORATION
It is the intent of these SPECIFICATIONS that clear-up and inal restoration shall be performed immediately upon completion of each phase of the work, but make and uskset the Project or when so deaded by the CLENT so that these areas will be restored as nearly as possible to their original condition or better, and phall include but not be limited to restoration of manifered shame and rights-of-way, roadways diveways sidewalks, districts bushes heriges level, shoulde forces meltioxes severes dain tiles waite makes.

OR shall at all times keep the premises free from accumulations of waste material or rubbish caused by his employees or work, and at the work he shall remove all his rubbish, loots is safiolding and surplus materials and shall leave his work forcom clean" or its equivalent lunless.

ROAD CLEANING

SAFETY AND PROTECTION

ET AND PROTECTION.

OWNRACTOR shall be solely and completely responsible for the conditions of the job side including safety of all persons and property during principles of the work. The requirement shall apply continuously and not be intended in committee ordering from a The CONTRACTOR shall comply with all contents of the work. The requirement shall apply continuously and not less than the principles of the principles

HOLD HARMLESS To be fulled setting perified by law, any CONTRACTOR, makeful supplier or other endry by use of those plans and appedications hereby waives any right of combination and agrees to interferingly, delived sure and right principles. The LLENT and ENDINERR and its against, employees and consultant from an aggreed all martier of claims. Causes, caused or laken, or law, caused and such agreed to the consultant from an aggreed all martier of claims, causes, caused or laken, or law, caused to all consultants and consultants are consultants and consultants. The consultants are consultants are consultants are consultants are consultants are consultants. The consultants are consultants are consultants are consultants are consultants are consultants.

Claims, damages, bases and expenses as libers words are used in line Agreenent shall mean and include but not be limited to (1) injury or damage cocurring by reason of the faither of or use or impacts of any host agrangs, blacking scaffolding or any end all claims lends of fears of expensed whether on the same or event furnished or based by any part or really, including any contraction, (2) all attentive likes and coals incred limited by any part or really, including any contraction, (2) all attentive likes and coals incred in bringing an action is enfour the provisions of this indemnet, (3) costs for large expended by the indemnet depairs of a single provision of the same expended by the indemnet depairs or expended to the comment of a single provision of the single provisions of the indemnet depairs or expended to the counters that off (2) costs for the comment of any part of the comment of the provisions of the single provisions.

treation regimer as an exposuration accorded in an equipment and exposuration according to the specific or employees and consultants by any party, including any employee of the CONTRACTOR or any Succentration, angined circumstance, angined exposuration and exposuration and an exposuration and e

Any party is any of relying on these plans, including any confractor, material supplier, or other entity shall obtain. (prior to commencing any work) gener public bably insurance resuming against all demanges and cliente for any bothly injuries, death or properly demange among out of any work, including the confortation work provided for in these plans, and obtain frame the CLEMT and ENGNEER and its consolutions, agents and representatives as addition insuceds under such insurance policy; provided that any party using or relying on these plans having obligations to maintain special envisance by reading agreement will LCLEMT or any CONTRACTOR or ENGNEER that Big provide evidence and envisions of insurance by relating to the such as the supplications of the supplications of the supplications. The supplications are consistent of the supplications of the supplic

THIRD PARTY BENEFICIARY

Manhard Consulting Ltd., the ENGINEER is intended to be a third party beneficiary of this willing agreement and requirement. Note: These Specifications are for Northern Illinois

DETAILED SPECIFICATIONS

I. DEMOLITION*

The CONTRACTOR shall assertise with respective villey componed year to the removed endor religious of villies. The CONTRACTOR shall condition with the villey company parcenting grown at few which hap to performed by the URMs Company is force and any few which will be oparation the villey company for their services. The CONTRACTOR is reasonable for purply the fifth has been changed.

services. The COVITACTOR is responsible for lawying for all fees and charges.

Social or more incident exhibition services growing contains indicated the services. An exhibition of the covitation of the covitat

The CONTRACTOR is responsely for abla months are under the control of the control

with the lacking into account and incontinuence and incontinuence to facely operations.

CONTRACTOR is not to account and incontinuence with Section 920 120 (bites) endough the Incontinuence and incontinuence with Section 920 120 (bites) endough the Incontinuence with Section 920 120 (bites) endough the Incontinuence and incontinuence with Section 920 120 (bites) endough the Incontinuence with Section 920 120 (bites) endough the Incontinuence with Section 920 120 (bites) endough the Incontinuence and incontinuence with Section 920 120 (bites) endough the Incontinuence and incontinu

a CONTRACTOR shall be responsible for the disconnection of white services to the existing buildings phouse demolition of the buildings

malared contaming astexics found within exacing sluctures shall be removed from the skepting protein to demolécen of the buildings, malared contaming astexics found within exacing sluctures shall be removed from the side and disposed of off-side by the CDNTRACTOR in accordance with the, Sales and Federal registrations.

company IDANAL GOVERNING ENTITY as requested.

The CONTRACTOR and accordingly all correlation with the JURISDICTIONAL OSCIPRING ENTITY and CARTA to these greatests and accordingly and correlation and according to the second product of the contract of the

has work shall be completed in conformance with the applicable sections of the Standard Specifications for Rood and Gridge Constitution, Department on Standard Specifications. State of Strong Advances are specified in modified octors.

SOIL BORING DATA Copies of results of soil boiling and reports, it such borings weter laken by the CLIENT in the vicinity of the proposed construction site should be made available by the CLIENT to the CONTRACTOR. Tress borings are presented for whetever purpose the CONTRACTOR chooses to nake of them. The ENGINEER makes no representation or warranty regarding the number, location, spacing or depth of borings taken, not of the accuracy or relability of the information given in the results feread.

Further, the ENGINEER does not assume responsibility for the possibility that during construction. The soil and groundwater condition may be different liter indicated. Namer does the ENGINEER assume responsibility for variations of soil and groundwater at location between burings. The CONTRACTOR is required to make fit own burings variationally or advantaged and in the contractor of the

EARTHWORK CALCULATIONS AND CROSS SECTIONS

The COVITRACTOR should any particle by the CUENT or ENLINEER webscere as to love sufficiency or accuracy. CONTRACTOR who was an expressed without any guarantee by the CUENT or ENLINEER webscere as to love sufficiency or accuracy. CONTRACTOR wentants list the specifirmed his own subsurface investigations and necessary and his own outclude loss and creates design dangered as designed and entire statements. The ENGINEER whose no representation or guarantee regarding enthwork quartimes on that the enthrough the volumes. The ENGINEER website is considered to the contract of the CONTRACTOR and considered the CONTRACTOR whose the contract is considered and contractor the contractor to the contract of the CONTRACTOR whose the contractor to the contractor of the contractor to the contractor of the contractor to the contractor of the cont

CLEARING, GRUBBING AND TREE REMOVAL

TOPSOIL STRIPPING

Upon completion of nemothers, cleaning, grupting and their removal, will tops of shall be stroped from under all quistings and powerest areas, and other areas in complete the work. Tupped shall be placed in storage on boardone as designated by the CLEAT.

TOPSOIL RESPREAD

SEDING

John completion of lapsoil respread, the CONTRACTOR shall apply seed and fertilizer to all respread areas in accordance with IDOT standards or as resummer on bridge-page designations, provided by the CUIENT.

SODDING

Joon completion of lapsoid respired, the CONTRACTOR shall install sod to all areas designated on the plans or as designated on the landscape drawings and specifications provided by the CUENT. EXCAVATION AND EMBANKMENT

Specifically included in the scope of Excavation and Embankments is grading and shaping of all out or fall areas including swales and disches, handing of sewer spoil, etc., and all work required to provide positive dramage at the end of each working day and upon completion of a section

The CONTRACTOR shall be responsible for the excavation of all awaies and district and for the excavation or 16mp of the issue. Invating path and priving its within the work tents to fine 5 givings shown to the giams, he shall be responsible to cleaning sumpation in accordance with the immunicipation shall not be supported by the contracting sumpation in accordance with the immunicipation shall not be such in the software of one appropriate plants in the software or of the appropriate plants in the software or of the appropriate plants in the software or of the appropriate plants in the software of the appropriate plants in the software of the appropriate plants and the software of the software

	Percent		
	Compartion	Pavement &	
Type Meterial	Blinder.	Floor States	GERNALD
Sandy Spile	Modified Propler	95%	90%
Clayay Sods	Standard Proctor	95%	90%

The CONTRACTOR shall notify the CLIENT if proper compaction cannot be obtained so that the CLIENT may determine what remediat measures may be

A soils leading firm employed by the CLIENT shall determine which soils are unsuriable, Malairais in their natural state being defined as unsurlable that would be suitable material if musture conditioned is tall be conditioned by the CONTRACTOR and used as suitable embankment material or hauled from the site. For purposes of definition, unsurtable material shall be as follows unless determined otherwise by the Bolts Engineer

- 2. Any cohesive soil with an unconfined compressive strength of 1,5 lons per square tool or tess Any soil whose sill content exceeds 60% by weight
- Any sod whose man man density is less than 150 paints per subscition 5 Any soil containing organic deleterious or hazardous material

he CONTRACTOR shall notify the CLIENT immediately upon encountering groundwaler during excavation. It in the opmon of the CLIENT or the URBISICTIONAL COVERNING ENTITY the conducton necessitates the installation of perforated drien the bedded in washed gravel or open stor-ers a septem or late. The CONTRACTOR shall reads the contractor of the contractor

During examples and embantment grades may be adjusted to achieve an overall side earthwork balance. The CCMTRACTOR shall cooperate fully with the CLENTT adjustment of grades, construction ended and placement of majetale and shall immediately achieve CUENT of he between soft of restments with an obstance. Produce and placement of majetale to meet the above goals and shall immediately achieve CUENT of he between shall not became with an obstance.

EROSION CONTROL

Surable crosson control practices shall be maintained by the CONTRACTOR in socordance with Illimos Lirban Manual and all applicable Soil Eroson and Redimentation Control ordinances and the PLANS.

The subgrade cannot be dired adequately by discing as outlined above for placement of material to planned grades and if the CLIENT defermines that the subgrade does not meet the standards set forth above the CLIENT may require undercuting

MISCELLANEOUS CONTRACT ITEMS

(1) GEOTEXTILE FABRIC

Controlled later or approved equal shall be provided in arrays as designated by the CLENT, as indicated on the PLANS or as required by the JURISDICTIONAL COVERNING ENTITY when is repeat compaction of embankments over en

(2) ERDSION CONTROL BLANKET

UNDERCUTTING DURING EARTHWORK

III.UNDERGROUND IMPROVEMENTS

A. GENERAL

STANDARDS

SELECTED GRANULAR BACKFILL

elected Granular Backfill shall be required for all sewer and water main franches lying under existing of proposed afreets driveways, parking loss and valtum 4 "thereof, and where noted on PLANS. Aft material placed in such trenches shall be in accordance with the above standards. MANHOLES, CATCH BASIN, INLETS & VALVE VAULTS

Amherials. Call the Basins, Teleit, and Valve VAVU. It is with the Committee of the reforced precast concrete ring construction with longue and groove proformance with the latest revision of ASTM designation C-478. All prints between sections and itemses (except fainting methods see Section III) inhales, belowly situate to reside a section of III or the residence of the residen

AUGER/BORING AND CASING

AUGER (OPEN BORE)

HORIZONTAL AND VERTICAL SEPARATION OF WATER AND SEWER MAINS

foll and vertical apparation of water and severy many shall be in accompanies that blandarid appointments the Water and Bewer Constitution in Brissa. 44-201A and 41-2016 and Standard Dewing 18, 19, 20-21, 22-23 and 24

B. SANITARY SEWERS AND APPURTENANCES

Sanitary sewer pipe including building serv

- Polyvinyl Chloride (PVC) Sewei Pipe shall conform to ASTM D3034 (4-inch thru 15-inch) or ASTM F679 (18-inch thru 48-inch) minimum SDR 25 with flexible elastometric seal gasket gasketed joints conforming to ASTM D3212 and F477
- (2) Duckle from Sewer Pipe shall conform with ANSI/AWWA C151/A21,51 Class 50 cement lined with push on type joints conforming to ANSI
- (3) INTENTIONALLY DELETED
- Sanitary sewers shall include bedong and backfilling

MANHOLES

Manokas shall be constructed in conformance with Section IIIA Manhades, sit: above. The contrasts base and bottom section shall be constructed of precision of the contrast base and bottom section shall be constructed of precision of the contrast base and bottom section shall be constructed or precision of the contrast base and bottom section in the contrast base and bottom section in the contrast base and bottom section. The contrast base and bottom section is the contrast base contrast base and bottom section in the contrast basection of while the problem of the contrast basection of the contrast basecti

FOUNDATION, BEDDING AND HAUNCHING

Sanday severs that be an lested and lested to deflection in accordance with the requirements of Section 31-12* "ESTING AND INSPECTION FOR ACCEPTANCE OF SANTARY SEWERS" of the Standard Specifications for Wales and Sevent Concluded on three or the JURISDICTIONAL COVERNING SECTION ACCEPTANCE or provided the service services of the SURISDICTIONAL COVERNING and report luminated to the JURISDICTIONAL GOVERNING ENTITY.

All sandary mantales are to be felled for water lightness in accounts with ASTA CDC. Standard Planted by the hadon and Extendion Acceptance Testing of Intalitied Priscast Concrete Pipe Sewer Lines: or ASTIM C1244* Standard Test Wathod for Concrete Sewer Manholes by the Negative Pressure (Visuam) Test*

A wye branch or "tee" and sentary service line properly plugged and sealed shall be constructed as shown on the PLANS. The ends of all service marked with a d'Ad "post seturding 36" above grade and partial red. The CONTRACTOR shall keep accurate records of all Wye or Tee focation researced from the downstream nethode as well as the service lengths and furnish same to CUENT.

DROP MANHOLE CONNECTIONS

Risers shall be constructed infocations as shown on the PLANE and according to the detail.

SANITARY SEWER FORCE MAIN

TELEVISION INSPECTION Upon completion of construction a television enspection of the sandary sever system shall be performed on all portions of the sever if required by the JURISDICTIONAL COVERNING ENTITY. DVDs and winden report of all selevision inspections shall be provided to the CLENIT. The form of report and type and formed the body beta late approved by the JURISDICTIONAL COVERNING ENTITY.

All severs and appurterances shall be cleared prior to inspection and testing required by this section.

All delects and conective work required as the result of television inspection shall be performed by the CONTRACTOR without delay. All dips, criticks leaks, impospiny, seated parks and departures from approving grades and alignment shall be repaired by renowing and implacing the involved sections of pipe. Upon completion the result is severely tall the realised and such further respection made as may appear sevantiately by the CUSH. MISCELLANEOUS

William drains shall be connected to the sentary same C. WATER MAINS AND APPURTENANCES*

.....

Water man pipe shall conform to the following

(1) Polymyl Chloride Pipe (PVC) conforming to the latest revision of ANSI/AWWA 0500 (4-inch thru 12-inch) or ANSI/AWWA 0505 (14-inch thru 48-inch) with a pressure interior (125 ps. 50 ft 8 in accordance with ASTM 02241. Jaints shall be pressure interior of 235 ps. 50 ft 8 in accordance with ASTM 02319 with elaborative cash or accordance with ASTM 02319 with elaborative cash or accordance with ASTM 02319. (2) Ductile iron cement lined gipe conforming to the tatest revision of ANS//AWWA C151/A21,51. Thickness Class 52 minimum 150 psi working pressure

Installation shall be in accordance with ANSI/AWWA C600 (Dutale Iron) or ANSI/AWWA C605 (PVC). All water main shall have mechanical and cast iron or ductile rand fillings in accordance with ANSI/AWWA C150/A21,50 with 250 psi widthing pressure.

Powed or monolithic concrete thrust blocks are required to brace all fees, plugs, caps, and bends of 11.1/4 degree deflection or greater. Minimum cover for all water mains, including services, shall be 5-6° from the hinshed grade,. Water main shall include bedding and backfilling.

WATER VALVES AND LEAV NAME AND THE PROPERTY OF THE PROPERTY

VALVE VAULTS VALVE BOXES

VAL and a trial become ucted a continuous with packet IIIA Manholes, etc. above. Frame and lids shall be as approved by the JURISDICTIONAL 3OVERNING ENTITY and shall be imprinted "WATER".

FIRE HYDRANTS

re Hymanis and be per JURISSECTIONAL, OCHERANO ENTITY requirements. All fire hymanis and be located as shown on the PLAMS and shall be aimfed in a manner acceptable to the JURISSECTIONAL CONTRIVING ENTITY after indicated TAP, STOPS AND BOX

...... Water services shall be type if copperage as shown by PLANS, and constructed where shown on the PLANS. The ends of all behavior shall be natival with a 4 ke's pair testinating \$4's above great and parties blue. The CONTRACTOR's fall keep accurate records of lap locations and service box locations as well as the service designs and shares have the COLINEAT Water services shall include besting and depending.

DISINFECTION

PRESSURE TEST Wowable leakage, test pressure and duration shall be as per the requirements of the JURISDICTIONAL GOVERNING ENTITY

PRESSURE CONNECTION TO EXISTING WATER MAIN

DRY CONNECTION TO EXISTING WATER MAIN

FOLYETHYLENE TUBE (FOR DUCTILE IRON WATER MAIN ONLY)

FOUNDATION, BEDDING AND HAUNCHING

PACER WARE

car Was A Status flor or mod seating or approve execut.

Ongoing a class finding many Mary pay and produced, modeled 10 gauge support were suitable for direct Survivial billion beyond no tipe of all pumps to provide for stripp following construction. The sure what the satirple formmented mode every color would no state electronic state in account on the execution of the color (2°, A colorade) account on the substance construction on this provides for an account of the color of the

was shall be 216° 7e19 PoC coded standers steel and on contracte with more manage strength of 2,700 bis (seco. Chicago. II). Before final socretal of any water man, their welfan a mandared trace was anticopile test in some to-cellular proper installation of any trace wire. D. STORM SEWERS AND APPURTENANCES*

STORM BEWER PIPE

- Storm sewer pipe shall conform to the following Reinforced concrete pipe minimum Class IV in conformance with the fatest revision of ASTM designation C75 with C361 or C443 flexible gaskel joints except that bituminous mastic joints may be used in grass areas.
- (2) Patronal Chibronal (PAC) Rise: ASTM D0004 (Annothers 15-min) at ASTM SERV (16-min thrul 26-min), since SOR 25, sectionally manufacturer's name, type size, cell classification SDR rating. Joints shall be flexible elastement seals conforming to ASTM D3212.
- (3) Duckle Iron Pipe (DIP) shall conform to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push on type joints conforming to ANSI/AWWA C151/21,5 Class 50 cement lined with push of the ANSI/AWWA C151/21,5 Class 50 cement lined with push of the ANSI/AWWA C151/21, (4) Spiral Rib Metal Pipe Type 1R. 18-inch diameter and greater, Pipe ends shall be re-corrugated and installed with semi-corrugated with semi-corrugated and installed with semi-corrugated and installed with semi-corrugated (5) High Density Polyethylene Pipe (HDPE) Smooth Interior, AASHTO Designation M252 and M294, maximum diameter of 48 inches, Pipe joints and

- Polyvinyl Chloride (PVC) large dameter closed profile gravity sewer pipe. UNI-B-9. ASTM F794. [Only permitted with Municipality Approval and the control of th
- Corrugated Size (Metal) Pipe (CSP or CMP) ASTM A760. 16 gauge unless noted on PLANS. Corrugated Size (Metal) Pipe (CSP or CMP) ASTM A760. 16 gauge unless noted on PLANS. Stated dramping shall have 1.75 inches wide drain water and the property of the prop

Precasi less bends and manholes may be used if permitted by the JURISDICTIONAL GOVERNMENTAL ENTITY

Illum texas may be contracted with remarked controls upper view of early (lexible gasket joints (ASTM 361 or 443) for water main crossings

Startmener shall include bedong and trench backfill.

MANHOLES, INLEYS & CATCH BASING motive limits and callett flashing shallow constructed in confirmance with Section IIII Marketine size, above. The spain between conversing pose and the limit of the spain shallow in the spain shallow in the shallow in the shallow in the spain shallow shall be when the approved examination specified entering the PLANS. All harms and glades shall be provided such that the furge fully convers the opening stat. 2 of the structure is a minimum voice of the shallow in the shall provide shall include shall include shall called safety and shallow in the shall be shall not be shallowed in the shallow in the shall be shallowed in the shallow in the

FLARED END SECTION

faired end sections shall be pre-cast remotioned concrete flared end section with an end block of Blandard 542301 and shall be installed where shown on the PLANS. All flared end sections for graining section 342301 and shall be more as detailed on the PLANS. Want shall called end total

Sibre of repiconsating of pieces of # quality state # to # in dometic unall be furnished and included in accordance with IOST Epicolications and shall be placed where shown on the plans, to a minimum thickness of 12° and a width as indicated on the plans. Broken concrete or concrete blocks will not be

FOUNDATION, BEDDING AND HAUNCHING oundation. Bedding and Haunching shall be well coalitie aggingate or most time aggingate in accordance with the above standards and placed as shown on a cetal

UNDERDRAINS

Ppe orders are, Nether corrupted finishle plastid pipe devilorming to AASHTO Description N222 perforance compated polyethylene pipe (PE) with a stream relative of the describer indicated and the PLASS and weapped in a sold filter flavor supplies and weaple in the CANTRACTOR Perforations may be clocked or starting of the Perforation manner of 10 m2NF of interiors. CONTRACTOR what is unformed by a description from the control of the cont

- (1) All existing liabld drainage tile or storm sewers encountered or damaged during construction shall either be restored to their original condition, properly renouted and/or connected to the storm sewer system.
- (2) Fooling drains shall be connected to sump pumps or discharged directly into storm sewers. Fooling drains or drainage life shall not be consistent sewer.

CONNECTION FOR STORM SERVICE TO STORM MAIN

AGGREGATE BASE COURSE TYPE '8'

IV. ROADWAY AND PARKING LOT IMPROVEMENTS* STANDARDS

SUBGRADE PREPARATION The CONTRACTOR shall be responsible for all subgrade compaction and preparation to the lines and grades shown on the plans

Aggrégate Base Course Type B shall be limited to CA-6 or CA-10 gradation. Aggregate base courses shall be proof rolled as authined PROOF ROLL

CONTRACTOR shall proof roll the subgrade with either a 2-ade truck badded to 27,000 bs. Or a 3-a-te fruck badded to 40,000 bs. or a specified by the RISDICTIONAL COVERNING ENTITY. The CLERT and JURISDICTIONAL COVERNING ENTITY what between and approve the proof rolling of the RISDICTIONAL COVERNING ENTITY what between and approve the proof rolling of the specified and the base course. Proof addings for entire shall be added to 3 maximum delection of another and Visit for best appear and Visit for best accurate. The above critique is noted as a measurem delection canded and that proof folling of a majority of the artise will have less deletion from specified above. In any case of course, the subgrade and to be successed which be to repart and realised before proceeding with the prevent construction. Personnel subgrade material shall not be removed placed on obsurbed after proof oil subgrade material shall not be removed placed on obsurbed after proof oil subgrade material shall not be removed placed on obsurbed after proof oil subgrade been completed grow to the pavement conditional statements and the proof oil subgrade is disturbed and/or material is removed from or placed on the pavement subgrade oil oiling approved.

HOT-MIX ASPHALT BASE COURSE HOT-MIX ASPHALT BINDER AND SURFACE COURSE

HMA binder and surface course; shall be constructed to the comparted thickness as shown on the PLANS. The base course shall be cleared and in accordance with the JURISDICTIONAL GOVERNING ENTITY. The surface course shall be placed after the case and courses have given between the placed and the placed and the placed placed by the CURIN Flow love applying his explice course, the binder course stall be thoroughly cleaned and privated in accordance to JURISDICTIONAL GOVERNING ENTITY. Place to the placement of the surface course the LURISDICTIONAL GOVERNING ENTITY shall examine completed previous including out has quiffer and all failback shall be corrected by the CONTRACTIONAL GOVERNING ENTITY shall examine CONCRETE PAVEMENTS

SIDEWALKS Converte side-who shall be combinated to warmand thickness as shown on the INAMS. Edements shall be thickness is a minimum of 6 at all driveways. All side-wass shall be IDOT Class SI consiste on aggregate base as shown on the detail. A 30 expansion junk shall be provided when the statement of the IDOT Class SI consiste on aggregate base as shown on the detail. A 30 expansion junk shall be provided when

CURB AND GUTTER

Durblewing come shall be as per the detail shown on the PLANS, which shall return competited aggregate base conserved the continued gotter. All confinction and expansion joints shall be constructed as per the detail CONCRETE CURB AND QUITTER REMOVAL AND REPLACEMENT The CONTRACT Of the Business of an entering the season of the PLANS, the business of the PLANS and visible is used to a which cross socious and power.

The Contract of the Business of the Business the Business of the Busin

FRAME ADJUSTMENTS The road contractor shall be responsible for making final educatiments and the setting on a bifurninous mastic porting compound all castings located in treatively, advivable, and parking areas prior to construction of any custings sidewalk or hold surface. Any structures that result to be benefited or insistences of 4 who the completed and the work benchanged agreement for undersoon of which a completed and the own benchanged agreement to underground contractor. This Contractor shall all show the representation of the phase of work This work shall be incidental to the cost of the pavement.

PAVEMENT MARKING - PAINT PAVEMENT MARKING - THERMOPLASTIC

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SPECIFICATIONS ILLINOIS GILBERTS,

CONSTRUCTION CONSERVAN P VILLAGE THE

PROJ. MOR. JPD ROJ ASSOC: JRH RAWN BY JRH 07/22/16

N.T.S

SHEET 23 ∘ 23